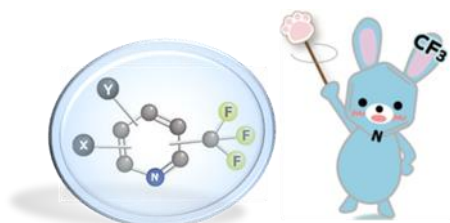


# CF<sub>3</sub>ピリジン化合物使用例



<第3版>



**ISK 石原産業株式会社**  
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## 化合物一覧

### $\alpha$ -CF<sub>3</sub>ピリジン化合物

略称	化合物名 (英/日)	頁
3,2,6-ACTF	3-Amino-2-chloro-6-(trifluoromethyl)pyridine 3-アミノ-2-クロロ-6-(トリフルオロメチル)ピリジン	5
2,3,6-DCTF	2,3-Dichloro-6-(trifluoromethyl)pyridine 2,3-ジクロロ-6-(トリフルオロメチル)ピリジン	6
2,6-ATF	2-Amino-6-(trifluoromethyl)pyridine 2-アミノ-6-(トリフルオロメチル)ピリジン	7
3,6-HmTF	6-(Trifluoromethyl)pyridine-3-methanol 6-(トリフルオロメチル)ピリジン-3-メタノール	8
6-TF-3-CHO	6-(Trifluoromethyl)pyridine-3-carboxaldehyde 6-(トリフルオロメチル)ピリジン-3-カルボキシアルデヒド	9
6-TFNA	6-(Trifluoromethyl)nicotinic acid 6-(トリフルオロメチル)ニコチン酸	10
2,6-HTF-3-CAM	2-Hydroxy-6-(trifluoromethyl)pyridine-3-carboxamide 2-ヒドロキシ-6-(トリフルオロメチル)ピリジン-3-カルボキサミド	11
2,6-CTF-3-CAM	2-Chloro-6-(trifluoromethyl)pyridine-3-carboxamide 2-クロロ-6-(トリフルオロメチル)ピリジン-3-カルボキサミド	12
2,6-CTF	2-Chloro-6-(trifluoromethyl)pyridine 2-クロロ-6-(トリフルオロメチル)ピリジン	13
2,3,4,5,6-TCTF	2,3,4,5-Tetrachloro-6-(trifluoromethyl)pyridine 2,3,4,5-テトラクロロ-6-(トリフルオロメチル)ピリジン	14
6-TF-2-CO <sub>2</sub> Et	Ethyl 6-(trifluoromethyl)picolinate 6-(トリフルオロメチル)ピコリン酸エチルエステル	15
2,6-CTFNA	2-Chloro-6-(trifluoromethyl)nicotinic acid 2-クロロ-6-(トリフルオロメチル)ニコチン酸	16
2,6-HmTF	6-(trifluoromethyl)pyridine-2-methanol 6-(トリフルオロメチル)ピリジン-2-メタノール	17

### $\beta$ -CF<sub>3</sub>ピリジン化合物

略称	化合物名 (英/日)	頁
2,6,3-DCTF	2,6-Dichloro-3-(trifluoromethyl)pyridine 2,6-ジクロロ-3-(トリフルオロメチル)ピリジン	18
3-TFPA	3-(Trifluoromethyl)picolinic acid 3-(トリフルオロメチル)ピコリン酸	19
2,5-ATF	2-Amino-5-(trifluoromethyl)pyridine 2-アミノ-5-(トリフルオロメチル)ピリジン	20
2,3-ATF	2-Amino-3-(trifluoromethyl)pyridine 2-アミノ-3-(トリフルオロメチル)ピリジン	21
2,5-CmTF	2-Chloromethyl-5-(trifluoromethyl)pyridine 2-クロロメチル-5-(トリフルオロメチル)ピリジン	22
2,3-MTF	2-Mercapto-3-(trifluoromethyl)pyridine 2-メルカプト-3-(トリフルオロメチル)ピリジン	23
3,5-CTF	3-Chloro-5-(trifluoromethyl)pyridine 3-クロロ-5-(トリフルオロメチル)ピリジン	24
2,5,6,3-TCTF	2,5,6-Trichloro-3-(trifluoromethyl)pyridine 2,5,6-トリクロロ-3-(トリフルオロメチル)ピリジン	25
2,3-CTF	2-Chloro-3-(trifluoromethyl)pyridine 2-クロロ-3-(トリフルオロメチル)ピリジン	26
2,3-HTF	2-Hydroxy-3-(trifluoromethyl)pyridine 2-ヒドロキシ-3-(トリフルオロメチル)ピリジン	27
3-TF-2-CO <sub>2</sub> Et	Ethyl 3-(trifluoromethyl)picolinate 3-(トリフルオロメチル)ピコリン酸エチルエステル	28

2,5-HmTF	5-(Trifluoromethyl)pyridine-2-methanol 5-(トリフルオロメチル)ピリジン-2-メタノール	29
5-TF-2-CO2Et	Ethyl 5-(trifluoromethyl)picolinate 5-(トリフルオロメチル)ピコリン酸エチルエステル	30
3,5-CTF-2-CO2Et	Ethyl 3-chloro-5-(trifluoromethyl)picolinate 3-クロロ-5-(トリフルオロメチル)ピコリン酸エチルエステル	31
2,5-MTF	2-Mercapto-5-(trifluoromethyl)pyridine 2-メルカプト-5-(トリフルオロメチル)ピリジン	32
2,5-HTF	2-Hydroxy-5-(trifluoromethyl)pyridine 2-ヒドロキシ-5-(トリフルオロメチル)ピリジン	33
2,3,5-ACTF	2-Amino-3-chloro-5-(trifluoromethyl)pyridine 2-アミノ-3-クロロ-5-(トリフルオロメチル)ピリジン	34
2,3,5-DCTF	2,3-Dichloro-5-(trifluoromethyl)pyridine 2,3-ジクロロ-5-(トリフルオロメチル)ピリジン	35
2,5-CTF	2-Chloro-5-(trifluoromethyl)pyridine 2-クロロ-5-(トリフルオロメチル)ピリジン	36
3-TF	3-(Trifluoromethyl)pyridine 3-(トリフルオロメチル)ピリジン	37
2,3-HmTF	3-(Trifluoromethyl)pyridine-2-methanol 3-(トリフルオロメチル)ピリジン-2-メタノール	38
5-TF-2-CN	2-Cyano-5-(trifluoromethyl)pyridine 2-シアノ-5-(トリフルオロメチル)ピリジン	39
5-TF-2,3-Bis-CO2Et	Diethyl 5-(trifluoromethyl)pyridine-2,3-dicarboxylate ジエチル 5-(トリフルオロメチル)ピリジン-2,3-ジカルボキシレート	40
2,5,3-HNTF	2-hydroxy-5-nitro-3-(trifluoromethyl)pyridine 2-ヒドロキシ-5-ニトロ-3-(トリフルオロメチル)ピリジン	41
2,5,3-MNTF	2-Mercapto-5-nitro-3-(trifluoromethyl)pyridine 2-メルカプト-5-ニトロ-3-(トリフルオロメチル)ピリジン	42
2,5,3-ANTF	2-Amino-5-nitro-3-(trifluoromethyl)pyridine 2-アミノ-5-ニトロ-3-(トリフルオロメチル)ピリジン	43

### $\gamma$ -CF<sub>3</sub>ピリジン化合物

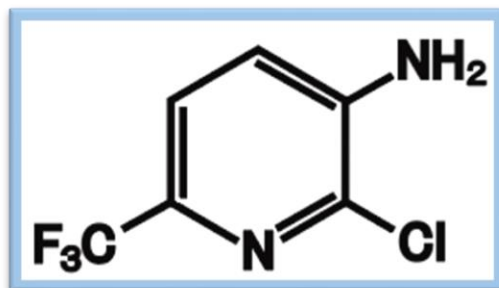
略称	化合物名 (英/日)	頁
2,6,4-DCTF	2,6-Dichloro-4-(trifluoromethyl)pyridine 2,6-ジクロロ-4-(トリフルオロメチル)ピリジン	44
2,4-CTF	2-Chloro-4-(trifluoromethyl)pyridine 2-クロロ-4-(トリフルオロメチル)ピリジン	45
2,4-ATF	2-Amino-4-(trifluoromethyl)pyridine 2-アミノ-4-(トリフルオロメチル)ピリジン	46
4-TF	4-(Trifluoromethyl)pyridine 4-(トリフルオロメチル)ピリジン	47
4-TFNA	4-(Trifluoromethyl)nicotinic acid 4-(トリフルオロメチル)ニコチン酸	48
2,3,5,6,4-TCTF	2,3,5,6-Tetrachloro-4-(trifluoromethyl)pyridine 2,3,5,6-テトラクロロ-4-(トリフルオロメチル)ピリジン	49
4-TF-2-CO2Et	Ethyl 4-(trifluoromethyl)picolinate 4-(トリフルオロメチル)ピコリン酸エチルエステル	50
2,6,4-ACTF	2-Amino-6-chloro-4-(trifluoromethyl)pyridine 2-アミノ-6-クロロ-4-(トリフルオロメチル)ピリジン	51
2,5,4-DCTF	2,5-Dichloro-4-(trifluoromethyl)pyridine 2,5-ジクロロ-4-(トリフルオロメチル)ピリジン	52
2,6,4-DATF	2,6-Diamino-4-(trifluoromethyl)pyridine 2,6-ジアミノ-4-(トリフルオロメチル)ピリジン	53
2,6,4-CHrTF	2-Chloro-6-hydrazino-4-(trifluoromethyl)pyridine 2-クロロ-6-ヒドラジノ-4-(トリフルオロメチル)ピリジン	54

## Bis-CF<sub>3</sub> ピリジン化合物

略称	化合物名 (英/日)	頁
2,4,5-CBiTF	2-Chloro-4,5-bis(trifluoromethyl)pyridine 2-クロロ-4,5-ビス(トリフルオロメチル) ピリジン	55
2,3,6-CBiTF	2-Chloro-3,6-bis(trifluoromethyl)pyridine 2-クロロ 3,6-ビス(トリフルオロメチル) ピリジン	56
2,6,3,5-DCBiTF	2,6-Dichloro-3,5-bis(trifluoromethyl)pyridine 2,6-ジクロロ-3,5-ビス(トリフルオロメチル) ピリジン	57
3,5-BiTF	3,5-Bis(trifluoromethyl)pyridine 3,5-ビス(トリフルオロメチル) ピリジン	58
2,4,6-CBiTF	2-Chloro-4,6-bis(trifluoromethyl)pyridine 2-クロロ-4,6-ビス(トリフルオロメチル) ピリジン	59
3,5,2,6-DCBiTF	3,5-Dichloro-2,6-bis(trifluoromethyl)pyridine 3,5-ジクロロ-2,6-ビス(トリフルオロメチル) ピリジン	60
2,6-BiTF	2,6-Bis(trifluoromethyl)pyridine 2,6-ビス(トリフルオロメチル) ピリジン	61
2,4,6-ABiTF	2-Amino-4,6-bis(trifluoromethyl)pyridine 2-アミノ-4,6-ビス(トリフルオロメチル) ピリジン	62
2,3,5-ABiTF	2-Amino-3,5-bis(trifluoromethyl)pyridine 2-アミノ-3,5-ビス(トリフルオロメチル)ピリジン	63
2,4,5-HBiTF	2-Hydroxy-4,5-bis(trifluoromethyl)pyridine 2-ヒドロキシ-4,5-ビス(トリフルオロメチル)ピリジン	64

## 3-Amino-2-chloro-6-(trifluoromethyl) pyridine

3-アミノ-2-クロロ-6-(トリフルオロメチル)ピリジン

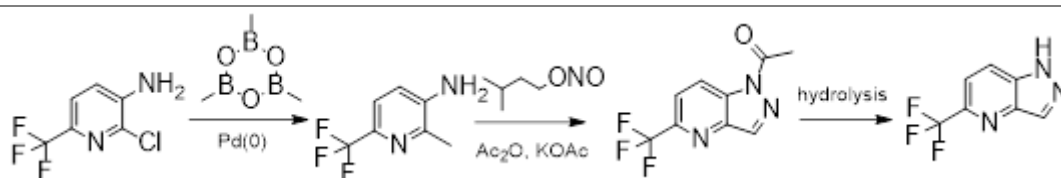
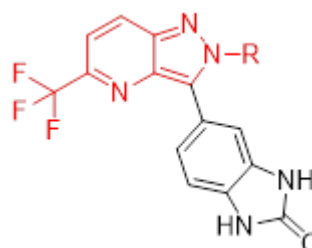


**略称 3,2,6-ACTF**

コード番号 ISK-a-1

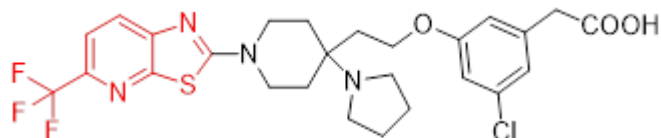
### US 20180111925

(Janssen Pharmaceutica NV, Belg.)  
<AMPA receptor modulators>

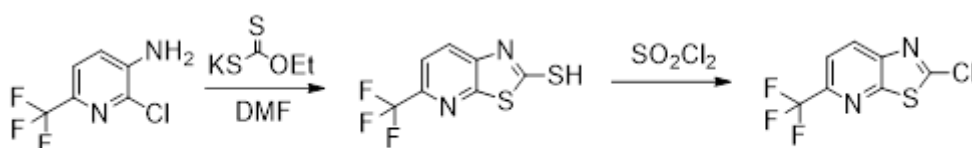


### WO 2007023882

(Shionogi & Co., Ltd.)  
<DERIVATIVE HAVING PPAR AGONIST  
ACTIVITY>



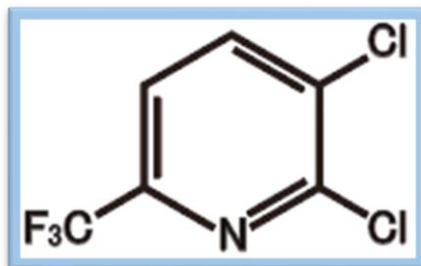
RSC-451061



Synthesis 2018, vol50, 2027-2032

## 2,3-Dichloro-6-(trifluoromethyl) pyridine

2,3-ジクロロ-6-(トリフルオロメチル)ピリジン



**略称 2,3,6-DCTF**

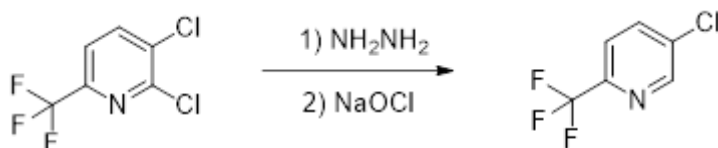
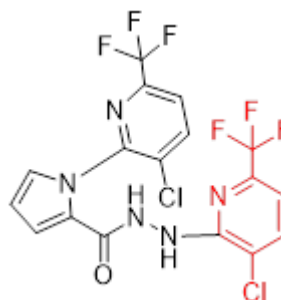
コード番号 ISK-a-2

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**WO 2009117421**

( Kalypsys, Inc., USA )

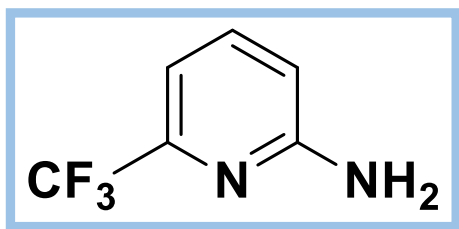
< modulators of GPR119 activity >



US 2013261310 (DOW AGROSCIENCES LLC)

## 2-Amino-6- (trifluoromethyl) pyridine

2-アミノ-6- (トリフルオロメチル) ピリジン



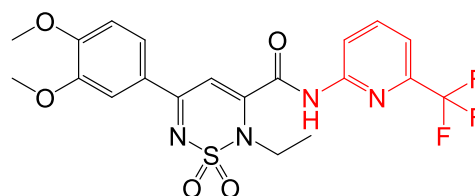
**略称 2,6-ATF**

コード番号 ISK-a-3

### WO 2020012423

(Richter Gedeon Nyrt., Hung.)

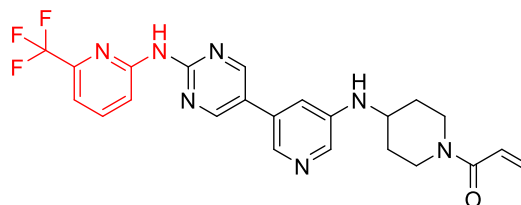
< α7 nicotinic acetylcholine receptor activity modulators >



### WO 2019089512

(Eli Lilly and Company, USA)

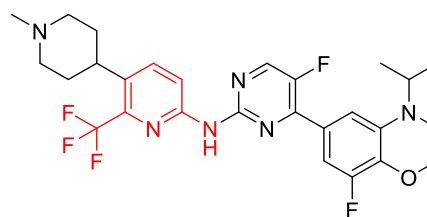
< Btk inhibitors >



### WO 2019161224

(GIRAFPHARMA LLC, USA)

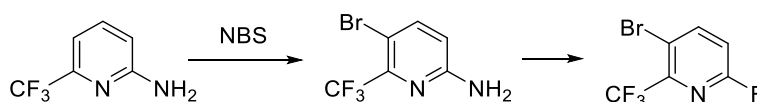
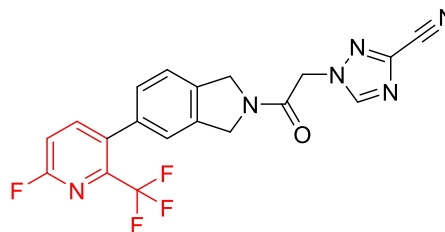
< kinase, especially CDK4 or CDK6, inhibitors for treating cancers >



### WO 20190244049

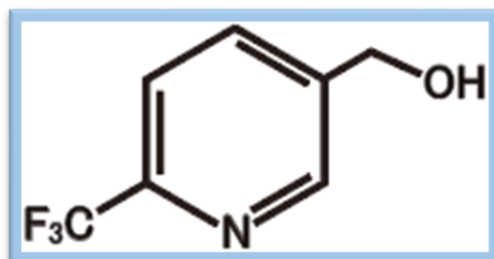
(Novartis AG, Switz.)

< the treatment of leishmaniasis, African trypanosomiasis and Chagas disease >



## 6- (Trifluoromethyl) pyridine-3-methanol

### 6- (トリフルオロメチル) ピリジン-3-メタノール



### 略称 3,6-HmTF

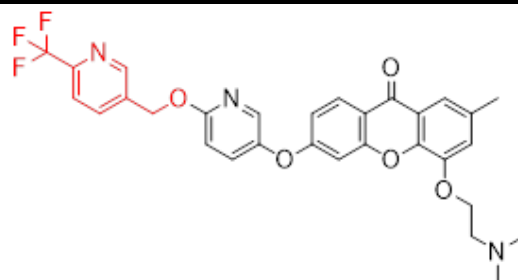
コード番号 ISK-a-4

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### WO 2018083635

(AUCKLAND UNISERVICES LIMITED)

<Colony stimulating factor I receptor (CSF-1R, also known as c-FMS kinase) inhibitory activity>

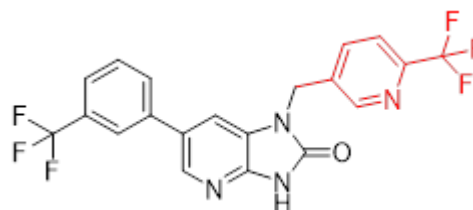


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### WO 2018067786

(Janssen Pharmaceutica NV, Belg.)

<GluN2B receptor modulators>

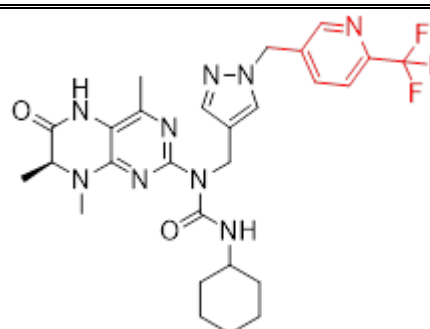


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### US 20190322673

(Vertex Pharmaceuticals Incorporated, USA)

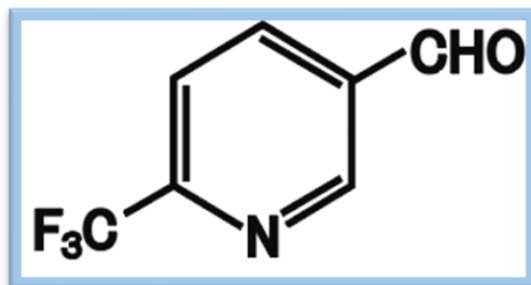
<the treatment of cellular proliferative disorders>





6- (Trifluoromethyl) pyridine-3-carboxaldehyde

6-(トリフルオロメチル)ピリジン-3-カルボキシアルデヒド



**略称 6-TF-3-CHO**

コード番号 ISK-a-5

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**US 20130274259**

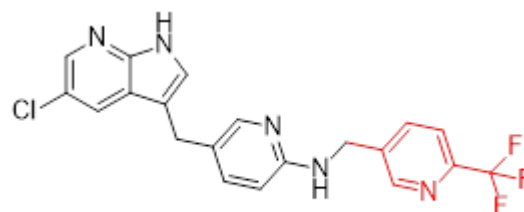
(PLEXXIKON INC., DAIICHSANKYO COMPANY, LIMITED)

<KINASE MODULATION AND INDICATIONS>

**WO 2016179412**

(PLEXXIKON INC., DAIICHSANKYO COMPANY, LIMITED)

<SYNTHESIS OF 1H-PYRROLO [2,3-B] PYRIDINE>



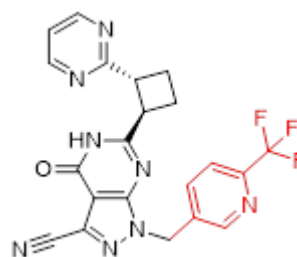
Pexidartinib

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**WO 2018226771**

(MERCK SHARP & DOHME CORP.)

<PYRAZOLOPYRIMIDINE PDE9 INHIBITORS>

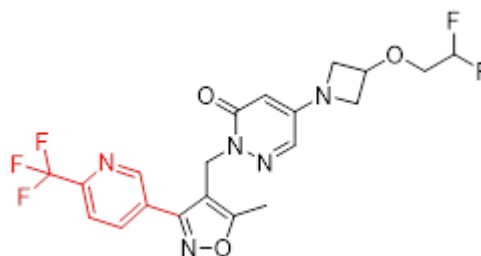


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**WO 2019238633**

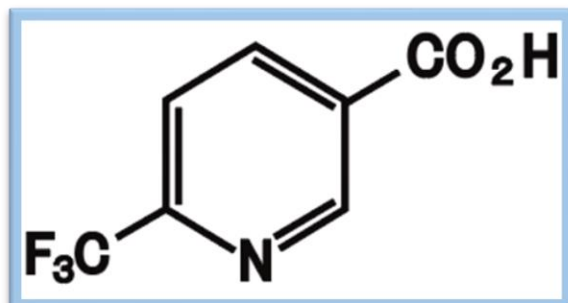
(F. HOFFMANN-LA ROCHE AG)

<GABA<sub>A</sub> α5 receptor positive allosteric modulators  
(PAMs) >



## 6- (Trifluoromethyl) nicotinic acid

### 6- (トリフルオロメチル) ニコチン酸



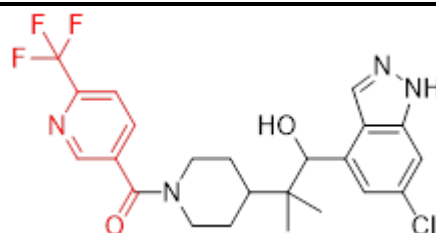
### 略称 6-TFNA

コード番号 ISK-a-6

### WO 2019183145

(Plexikon Inc., USA)

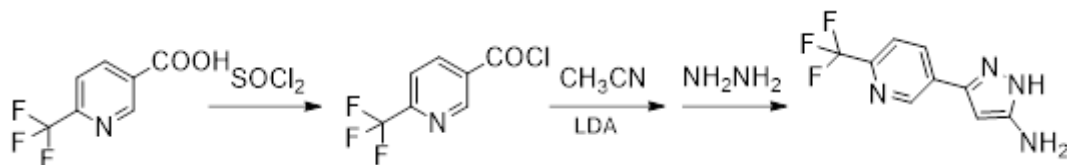
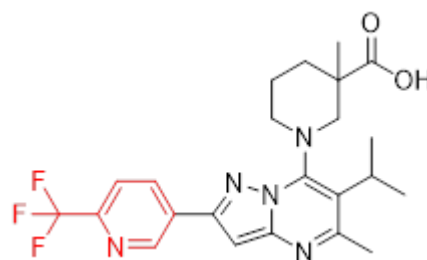
<inhibit indoleamine-2,3-dioxygenase (IDO)  
and tryptophan-2,3-oxygenase (TDO) >



### WO 2018167629

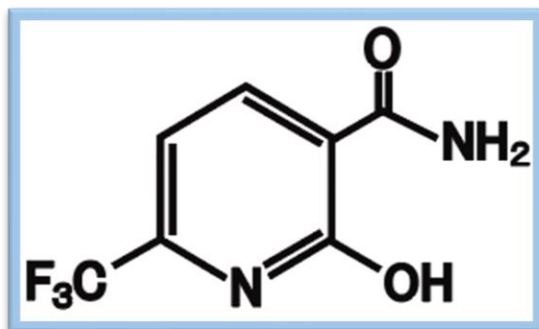
(Richter Gedeon Nyrt., Hung.)

<GABAb receptor positive allosteric  
Modulators >



2-Hydroxy-6- (trifluoromethyl) pyridine-3-carboxamide

2-ヒドロキシ-6- (トリフルオロメチル) ピリジン-3-カルボキサミド



略称 2,6-HTF-3-CAM

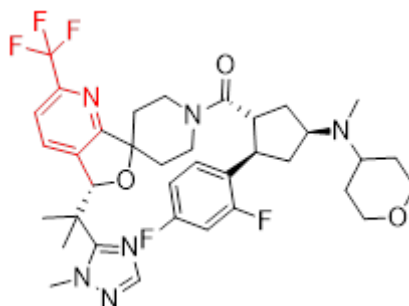
コード番号 ISK-a-7

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**WO 2007041052**

( Merck & Co., Inc., USA )

< melanocortin-4 receptor modulators >

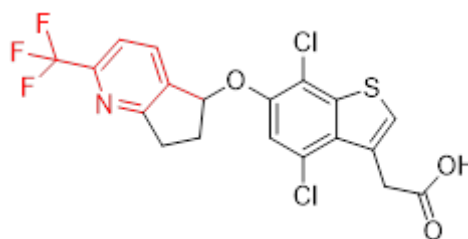


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**WO 2019149959**

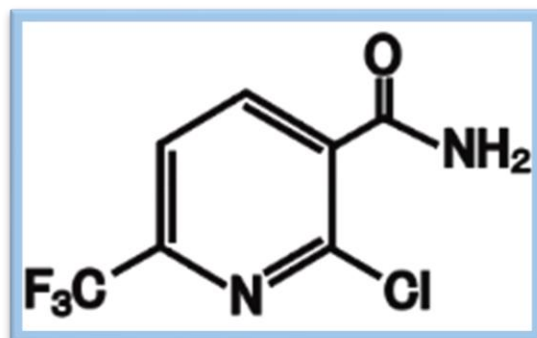
( GlaxoSmithKline Intellectual Property  
Development Limited, UK )

< ghrelin O-acyltransferase inhibitors >



2-Chloro-6- (trifluoromethyl) pyridine-3-carboxamide

2-クロロ-6-(トリフルオロメチル)ピリジン-3-カルボキサミド



**略称 2,6-CTF-3-CAM**

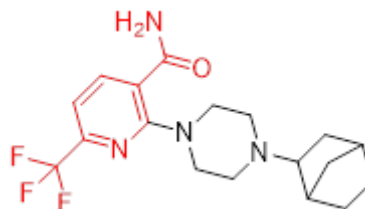
コード番号 ISK-a-8

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**WO 2005117883**

( Vertex Pharmaceuticals Incorporated, USA )

< Modulators of muscarinic receptors >

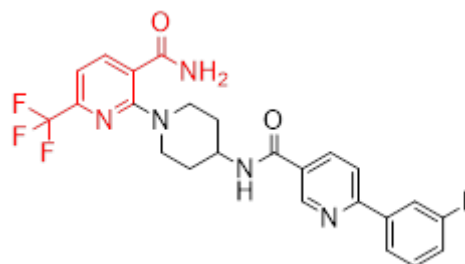


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**US 20080146569**

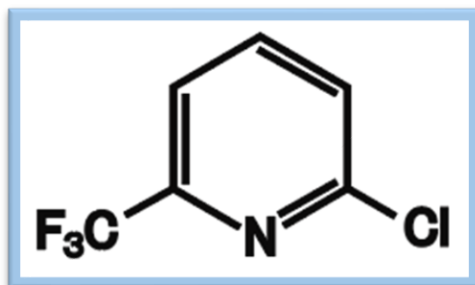
( Pfizer Inc., USA )

< H-PGDS (hematopoietic prostaglandin D-synthase) inhibitors >



2-Chloro-6- (trifluoromethyl) pyridine

2-クロロ-6-(トリフルオロメチル)ピリジン



**略称 2,6-CTF**

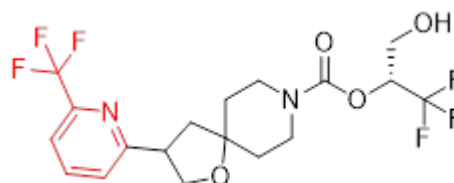
コード番号 ISK-a-9

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**WO 2018134695**

(Pfizer Inc.,USA)

<MAGL inhibitors useful in treatment of MAGL-mediated diseases>

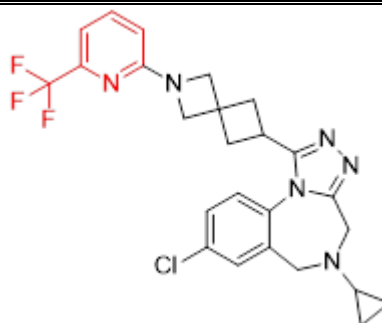


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**WO 2018226769**

(BlackThorn Therapeutics, Inc.,USA)

<V1a receptor antagonists for treating neuropsychological disorders>

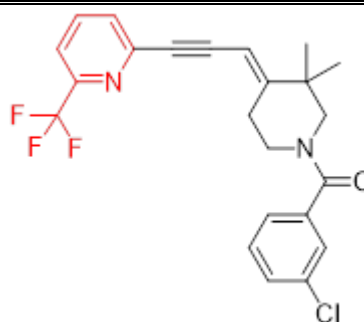


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**WO 2019002571**

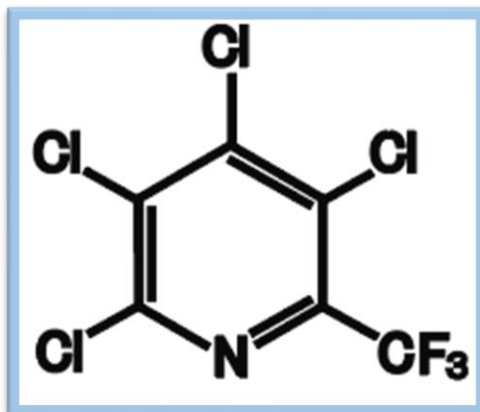
(Recordati Industria Chimica e Farmaceutica  
SpA, Italy)

<modulators of mGluR5 receptors>



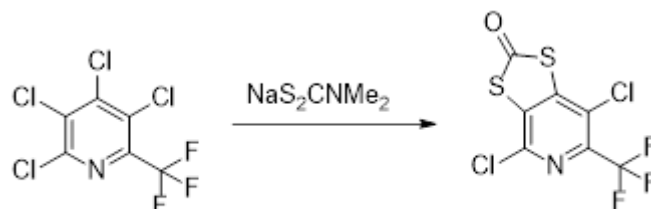
## 2,3,4,5-Tetrachloro-6-(trifluoromethyl) pyridine

2,3,4,5-テトラクロロ-6-(トリフルオロメチル)ピリジン

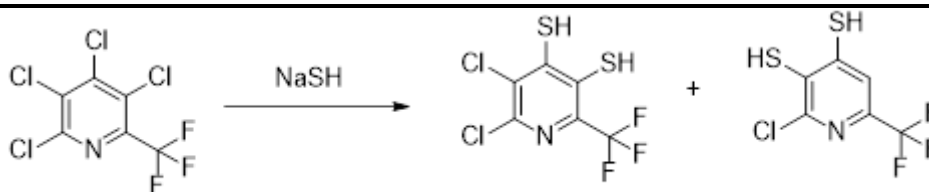


**略称** 2,3,4,5,6-TCTF

コード番号 ISK-a-10



Zhurnal Organicheskoi Khimii (1993), 29(9), 1872-7.

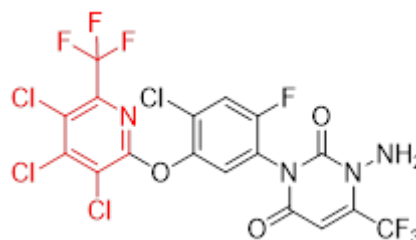


JP 04049282 (Ricoh K. K., Japan )

### WO 9841093

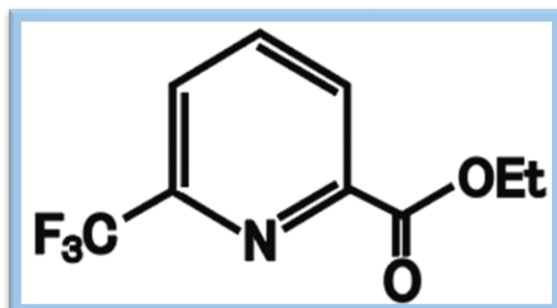
(ISK Americas Incorporated, USA)

<Preparation of diaryl ethers as herbicides  
and desiccants>



## Ethyl 6- (trifluoromethyl) picolinate

6- (トリフルオロメチル) ピコリン酸エチルエステル



**略称** 6-TF-2-CO<sub>2</sub>Et

コード番号 ISK-a-11

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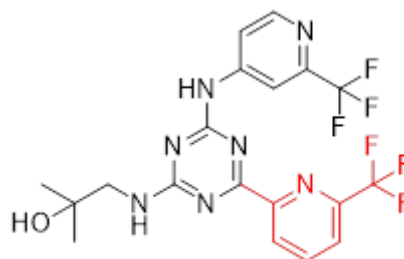
### WO 2013102431

(AGIOS PHARMACEUTICALS, INC.)

<Isocitrate dehydrogenase (IDH) -2 inhibitors>

### WO 2017024134

<Methods of Preparation>



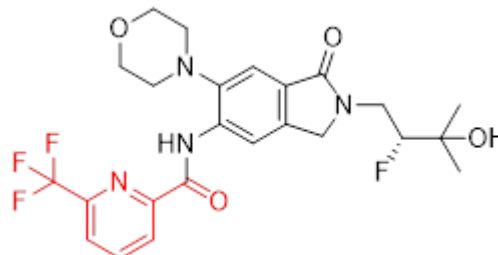
Enasidenib

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### WO 2018234342

(F. HOFFMANN-LA ROCHE AG)

<Interleukin-1 Receptor Associated Kinase  
(IRAK4) inhibitors>

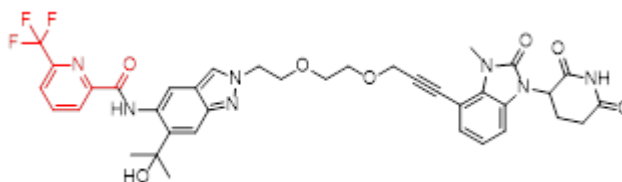


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### US 20190192668

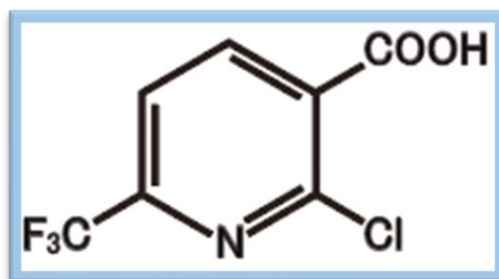
(Kymera Therapeutics, Inc.)

<Preparation of peptide conjugates as  
IRAK4 protein kinase degraders>



## 2-Chloro-6- (trifluoromethyl) nicotinic acid

2-クロロ-6- (トリフルオロメチル) ニコチン酸



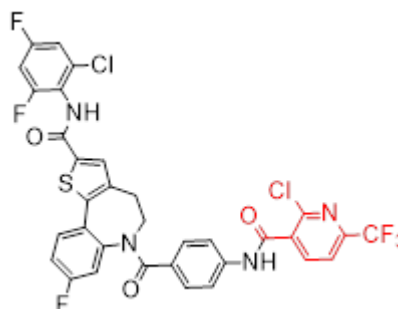
**略称 2,6-CTFNA**

コード番号 ISK-a-12

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### WO 2019006295

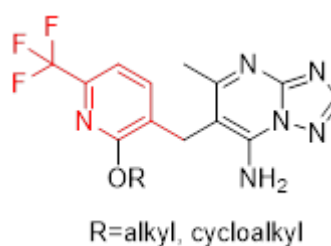
( ENANTA PHARMACEUTICALS, INC.)  
<Respiratory Syncytial Virus (RSV) Inhibitors>



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### WO 201949660

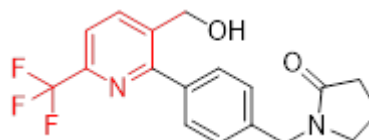
( BOEHRINGER INGELHEIM INTERNATIONALGMBH )  
< GHRELIN O-ACYL TRANSFERASE (GOAT)  
INHIBITORS >



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### WO 2019166822

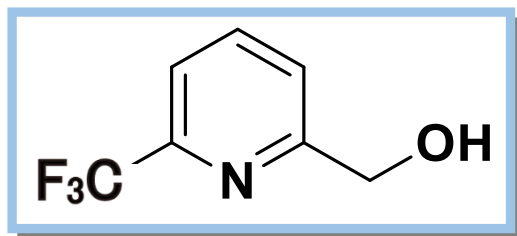
( THE UNIVERSITY OF SUSSEX etc. )  
< MODULATES AMPA RECEPTOR FUNCTION >





## 6- (Trifluoromethyl) pyridine-2-methanol

### 6- (トリフルオロメチル) ピリジン-2-メタノール

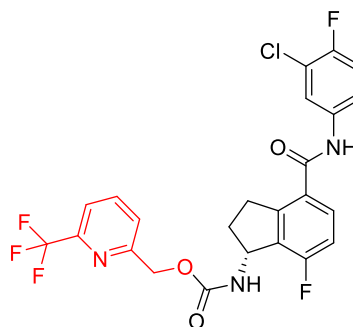


### 略称 2,6-HmTF

コード番号 ISK-a-13

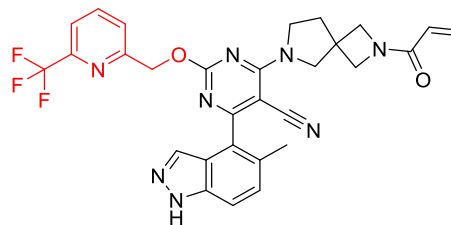
### WO 2018172852

(Arbutus Biopharma Corporation, Can.)  
< treatment of hepatitis B virus infection >



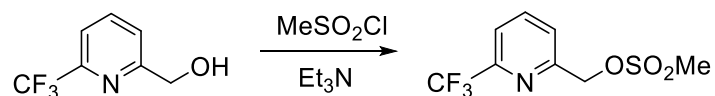
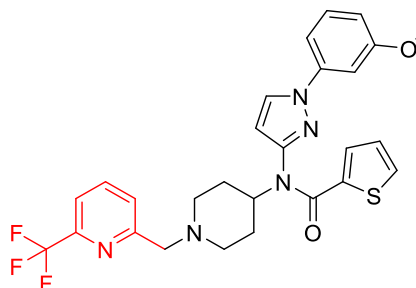
### WO 202028706

(Araxes Pharma LLC, USA)  
< the treatment of cancer >



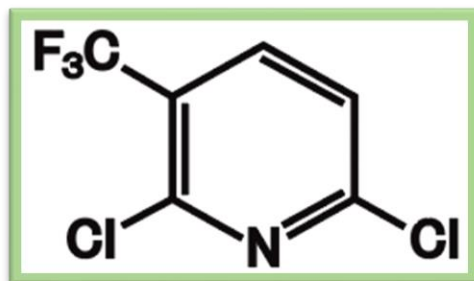
### WO 2017178510

(Laboratorios del Dr. Esteve, S.A., Spain)  
< multimodal activity against pain >



## 2,6-Dichloro-3-(trifluoromethyl) pyridine

2,6-ジクロロ-3-(トリフルオロメチル)ピリジン



**略称 2,6,3-DCTF**

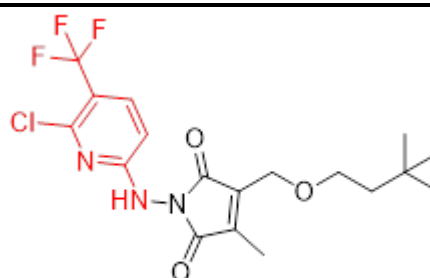
コード番号 ISK-b-1

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### US 20080275057

( Canbas Co., Ltd., Japan )

< Preparation of pyridinylaminopyrrolinediones  
for treatment of cell proliferation disorders >



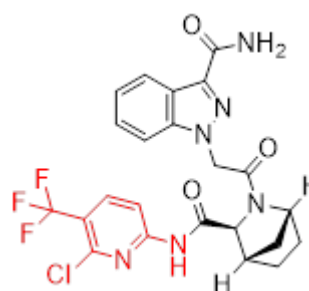
CBS-9106, SL-801

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### WO 2018229543

(LifeSci Pharmaceuticals, Inc., Barbados)

< complement factor D inhibitors >

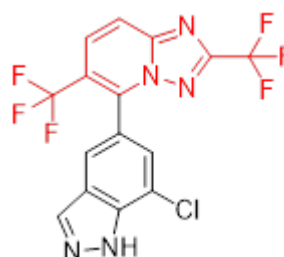


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### US 20180111933

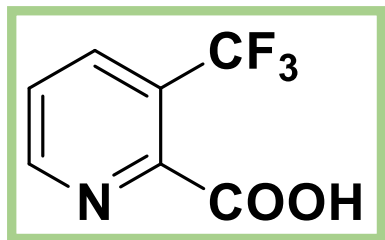
( Janssen Pharmaceutica NV, Belg.)

< AMPA receptor modulators >



### 3- (Trifluoromethyl) picolinic acid

### 3- (トリフルオロメチル) ピコリン酸



**略称 3-TFPA**

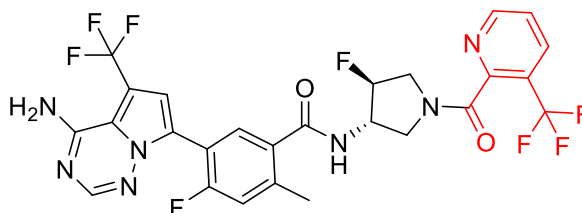
コード番号 ISK-b-2

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**WO2019147782**

(Bristol-Myers Squibb Company, USA)

< inhibitors of Cbl-b >

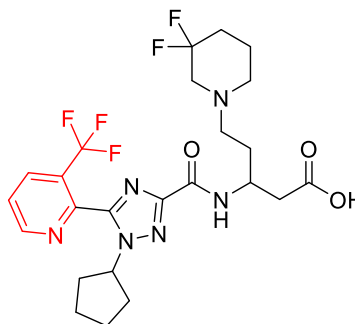


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**WO 2018071526**

(Research Triangle Institute, USA)

< apelin receptor (APJ) agonists >

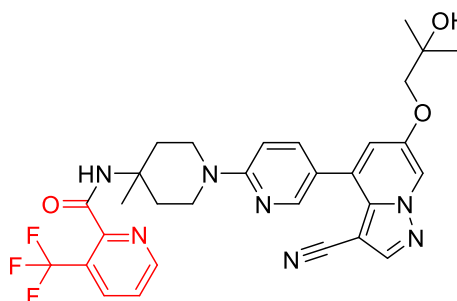


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**WO 2018071454**

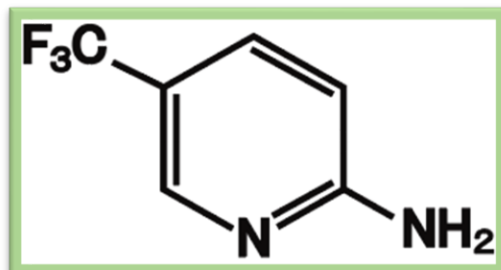
(Array BioPharma Inc. USA)

< RET kinase inhibitors >



## 2-Amino-5- (trifluoromethyl) pyridine

2-アミノ-5-(トリフルオロメチル)ピリジン



**略称 2,5-ATF**

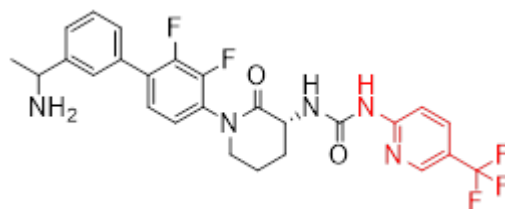
コード番号 ISK-b-3

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### WO 2018227065

(Bristol-Myers Squibb Company, USA)

<Piperidinone formyl peptide 2 receptor and  
formyl peptide 1 receptor agonists>

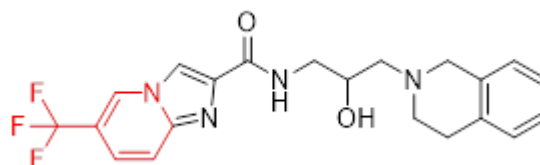


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### WO 2019102494

(Jubilant Biosys Limited, India)

<PRMT5 inhibitors>

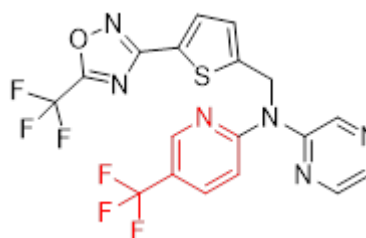


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### WO 2019166824

(Karus Therapeutics Limited, UK)

<histone deacetylase inhibitors>

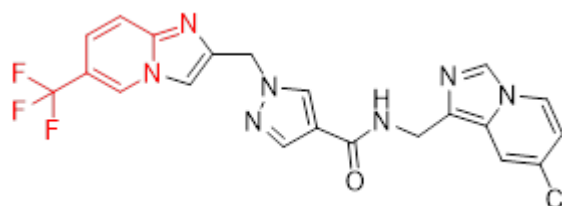


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### WO 2019178129

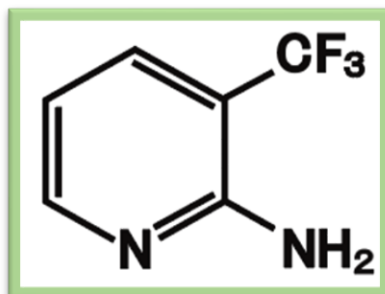
(Shire Human Genetic Therapies, Inc., USA)

<inhibitors of plasma kallikrein>



## 2-Amino-3- (trifluoromethyl) pyridine

2-アミノ-3-(トリフルオロメチル)ピリジン



**略称 2,3-ATF**

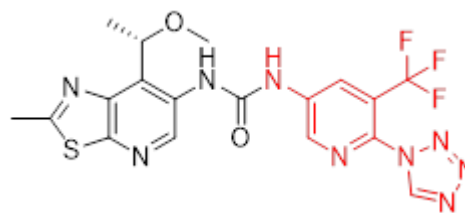
コード番号 ISK-b-4

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### WO 2018020474

(Lupin Limited, India)

<Mucosa Associated Lymphoid tissue  
lymphoma translocation protein-1 (MALT1)  
inhibitors>

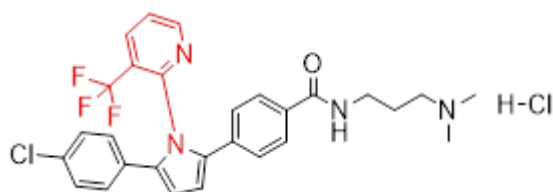


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### WO 2018197714

(Sentinel Oncology Limited, UK)

<selective Polo-Like Kinase 1 (PLK1)  
inhibitors>

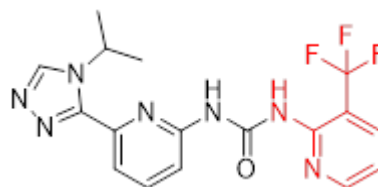


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### WO 2019099307

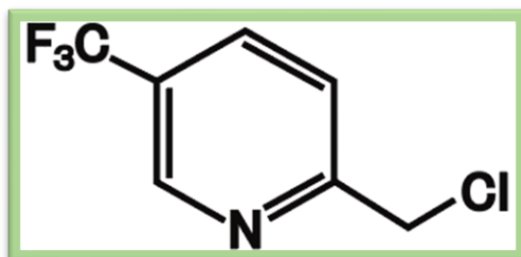
(Hepagene Therapeutics, Inc.)

<Inhibitors OF Apoptosis signal regulating  
kinase 1 (ASK1)>



## 2-Chloromethyl-5- (trifluoromethyl) pyridine

2-クロロメチル-5-(トリフルオロメチル)ピリジン



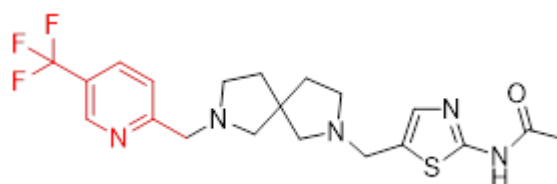
**略称 2,5-CmTF**

**コード番号 ISK-b-5**

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### WO 2018141984

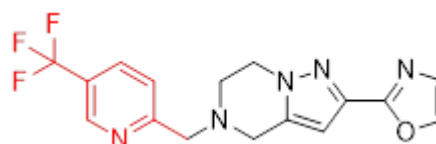
(Janssen Pharmaceutica NV, Belg.)  
<O-GlcNAc hydrolase (OGA) inhibitors>



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### WO 2016171181

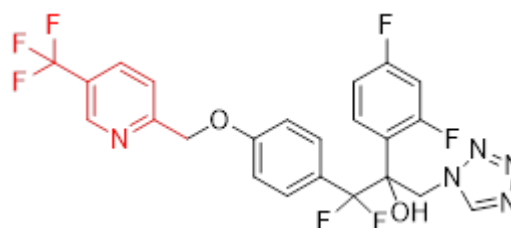
(SUIMITOMO  
DAINIPPON PHARMA CO., LTD.)  
<selective dopamine D4 receptor agonists>



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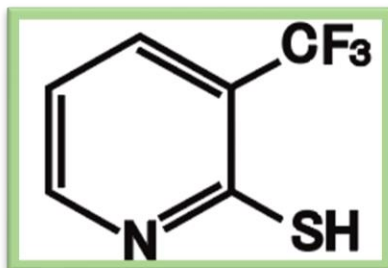
### WO 2012177635

(Viamet Pharmaceuticals, Inc., USA)  
<metalloenzyme inhibitor compounds>



## 2-Mercapto-3- (trifluoromethyl) pyridine

2-メルカプト-3-(トリフルオロメチル)ピリジン



**略称 2,3-MTF**

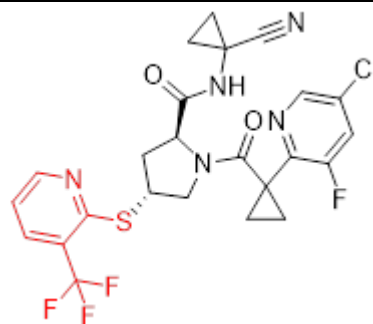
コード番号 ISK-b-6

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### WO 2014029722

(F. Hoffmann-La Roche AG, Switz.)

<cathepsin inhibitors>

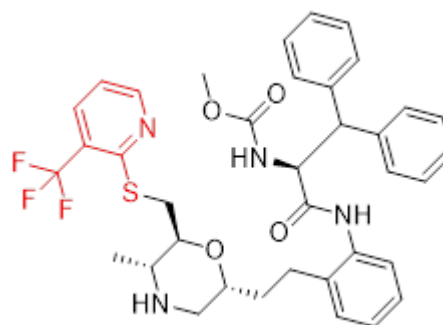


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### WO 20151095276

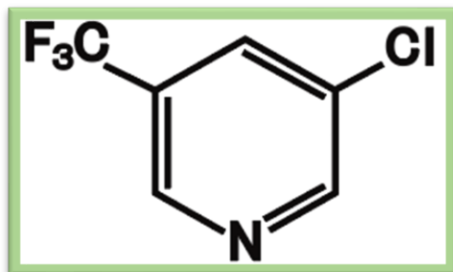
(Merck Sharp & Dohme Corp., USA)

<HIV protease inhibitors>



## 3-Chloro-5- (trifluoromethyl) pyridine

3-クロロ-5-(トリフルオロメチル)ピリジン



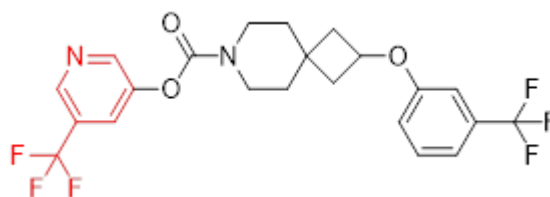
**略称 3,5-CTF**

コード番号 ISK-b-7

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### WO 2018169880

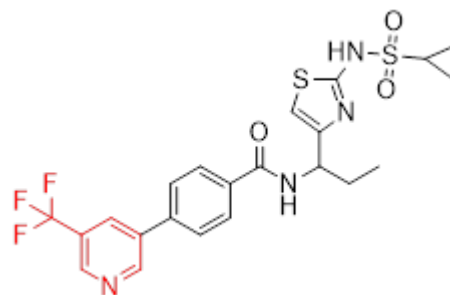
(Abide Therapeutics, Inc., USA)  
<Dual MAGL and FAAH inhibitors>



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### WO 2019106146

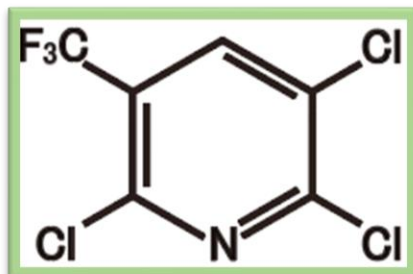
(Step Pharma S.A.S., Fr.)  
< Cytidine triphosphate synthase 1 (CTRS1)  
inhibitors>





2,5,6-Trichloro-3- (trifluoromethyl) pyridine

2,5,6-トリクロロ-3- (トリフルオロメチル) ピリジン



**略称 2,5,6,3-TCTF**

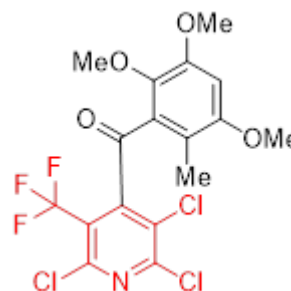
コード番号 ISK-b-8

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**WO 2005041663**

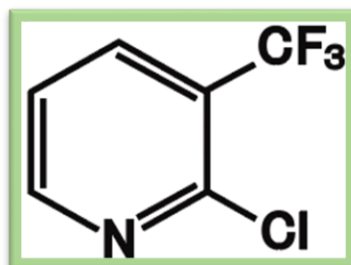
(Ishihara Sangyo Kaisha, Ltd., Japan)

<Preparation of benzoylpyridine derivatives as synergistic fungicides for controlling plant disease>



## 2-Chloro-3- (trifluoromethyl) pyridine

### 2-クロロ-3-(トリフルオロメチル)ピリジン



**略称 2,3-CTF**

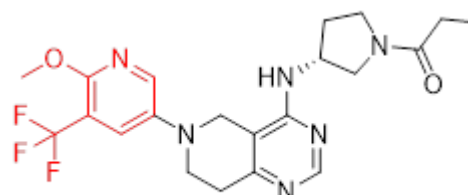
コード番号 ISK-b-9

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### WO 2012004299

(Novartis AG, Switz.)

<Phosphatidylinositol 3-kinase (PI3K) enzyme activity modulators>



Leniolisib

### WO 2013/001445

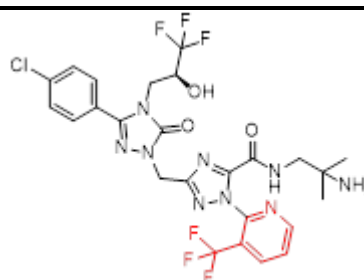
<Methods of Preparation>

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### WO 2019081303

( Bayer Aktiengesellschaft, Germany )

<treating renal and cardiovascular diseases>

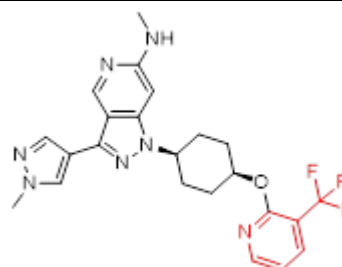


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### WO 2019113190

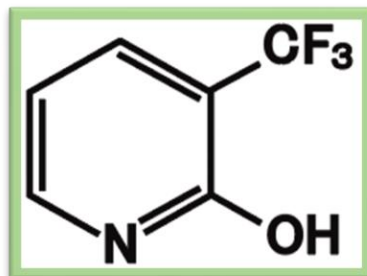
( Array Biopharma Inc., USA )

< inhibitors of TAM kinases >



## 2-Hydroxy-3- (trifluoromethyl) pyridine

2-ヒドロキシ-3-(トリフルオロメチル)ピリジン



**略称 2,3-HTF**

コード番号 ISK-b-10

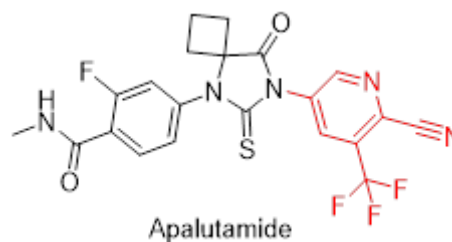
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### WO 2007126765

(The University of California, USA)  
<androgen receptor modulators>

### WO 2011103202

(Aragon Pharmaceuticals, Inc., USA)  
<Methods of Preparation>

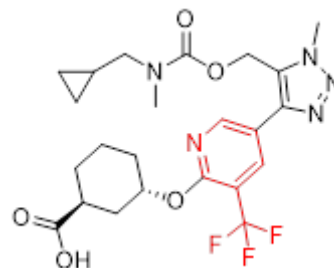


Apalutamide

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### WO 2017223016

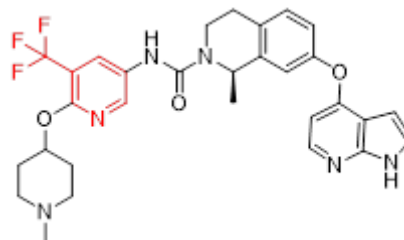
( Bristol-Myers Squibb Company, USA:  
Syngene International Limited )  
< LPA antagonists >



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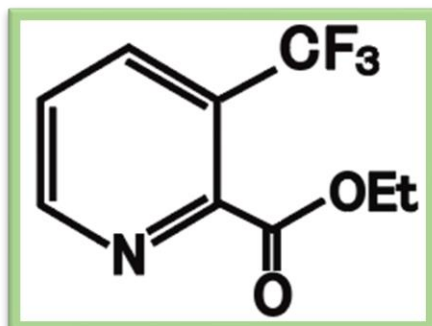
### WO 2019200120

(Lycera Corporation, USA)  
<Inhibiting Hematopoietic Progenitor Kinase 1  
(HPK1) activity >



## Ethyl 3- (trifluoromethyl) picolinate

3- (トリフルオロメチル) ピコリン酸エチルエステル



**略称** 3-TF-2-CO2Et

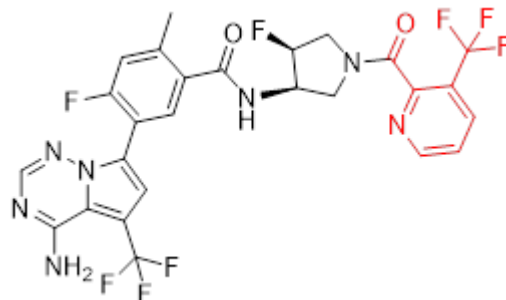
コード番号 ISK-b-11

### WO 2019147782

(Bristol-Myers Squibb Company, USA)

<receptor interacting protein kinase 1

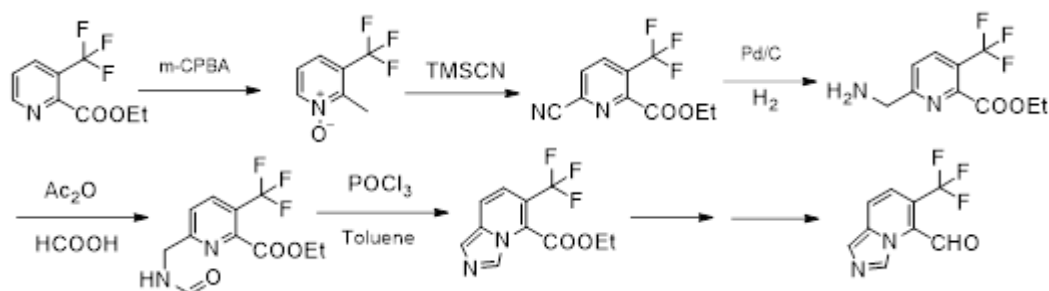
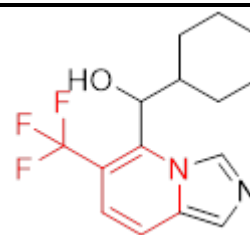
(RIPK1) inhibitors>



### WO 2016161960

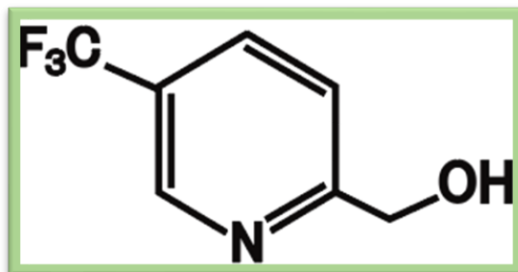
(BeiGene, Ltd.)

<indoleamine and tryptophane 2,3-dioxygenases  
inhibitors for treatment and prophylaxis of diseases>



## 5- (Trifluoromethyl) pyridine-2-methanol

5- (トリフルオロメチル) ピリジン-2-メタノール

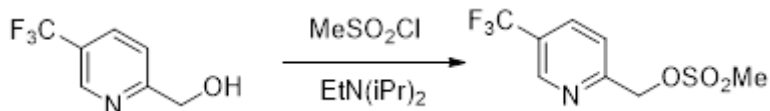
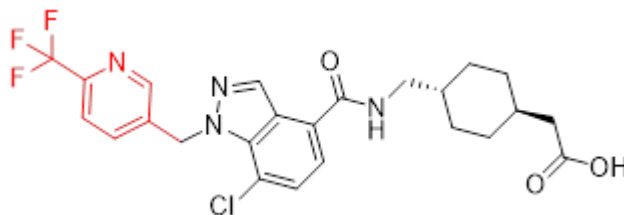


略称 2,5-HmTF

コード番号 ISK-b-12

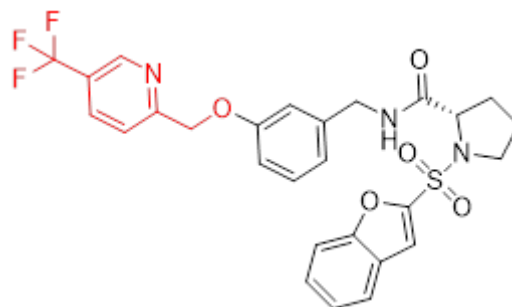
### WO 2018181456

(Kaken Pharmaceutical Co., Ltd  
Meiji Seika Pharma Co., Ltd., Japan)  
<ROR  $\gamma$  t inhibitors>



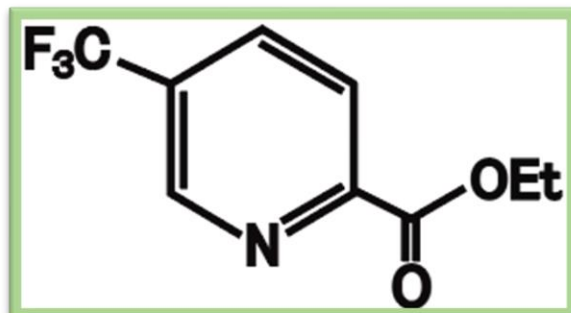
### WO 2015115507

(Ajinomoto CO., INC.)  
<TRPA1 antagonists for treating pain, digestive  
diseases, and inflammatory diseases>



## Ethyl 5- (trifluoromethyl) picolinate

5- (トリフルオロメチル) ピコリン酸エチルエステル



**略称** 5-TF-2-CO<sub>2</sub>Et

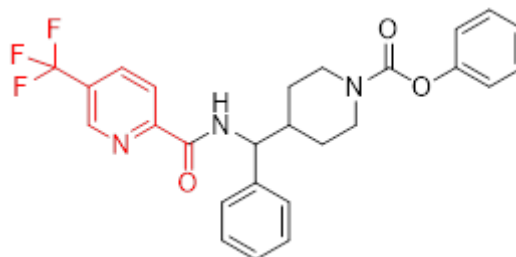
コード番号 ISK-b-13

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### WO 2019003141

(GlaxoSmithKline Intellectual Property  
Development Limited, UK)

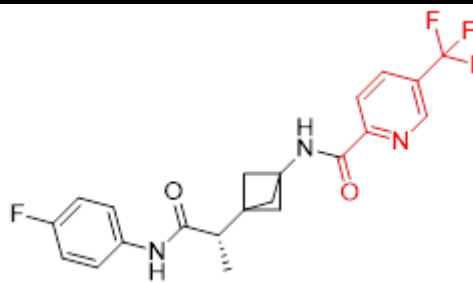
<modulators of indoleamine 2,3-  
dioxygenase>



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### WO 2019204180

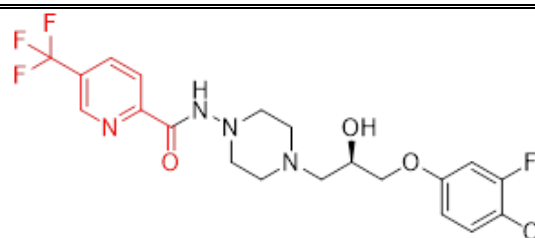
(Merck Sharp & Dohme Corp., USA)  
<indoleamine 2,3-dioxygenase inhibitors>



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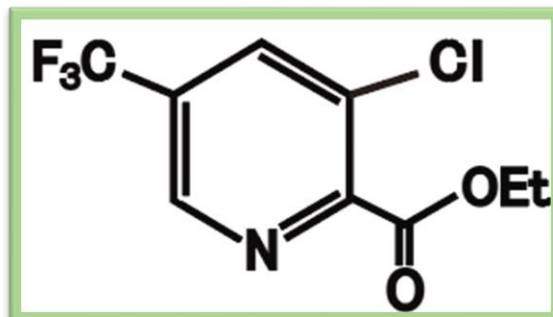
### WO 2019236710

(Praxis Biotech LLC, USA)  
<inhibitors of integrated stress response pathway>



## Ethyl 3-chloro-5-(trifluoromethyl) picolinate

3-クロロ-5-(トリフルオロメチル)ピコリン酸エチルエステル



**略称** 3,5-CTF-2-CO<sub>2</sub>Et

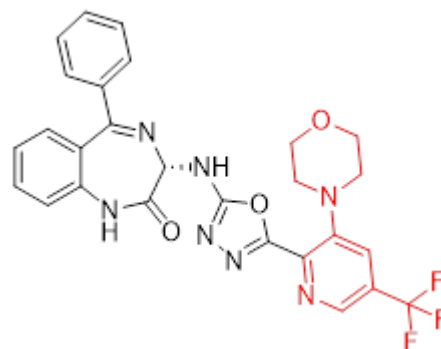
コード番号 ISK-b-14

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### WO 2018129287

(Enanta Pharmaceuticals, Inc., USA)

<RSV inhibitors>

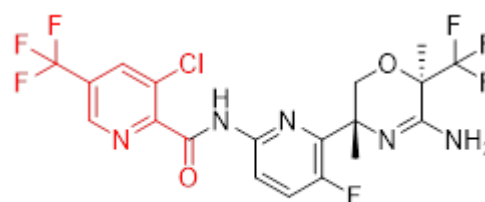


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### WO 2019142111

(Novartis AG, Switz.)

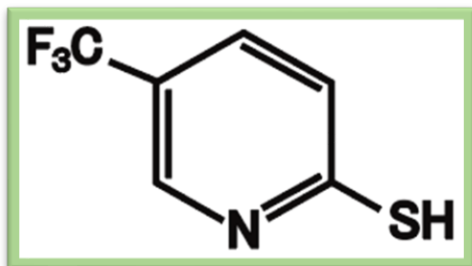
<Preparation of salt forms of an oxazine  
derivative BACE inhibitor>



Umibecestat

## 2-Mercapto-5- (trifluoromethyl) pyridine

2-メルカプト-5-(トリフルオロメチル)ピリジン



**略称 2,5-MTF**

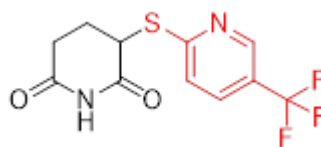
コード番号 ISK-b-15

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### WO 2019/140387

(Kymera Therapeutics, Inc., USA)

<inhibition of cereblon (CRBN)>

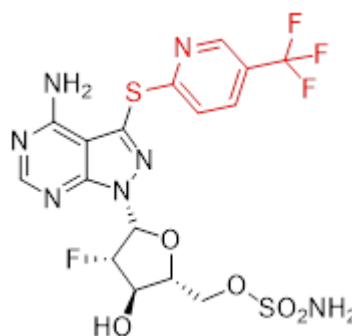


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### WO 2018089786

(Millennium Pharmaceuticals, Inc., USA)

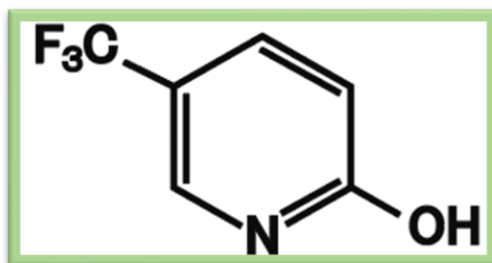
<antitumor agents and Atg7 enzyme inhibitors>





2-Hydroxy-5- (trifluoromethyl) pyridine

2-ヒドロキシ-5-(トリフルオロメチル)ピリジン



**略称 2,5-HTF**

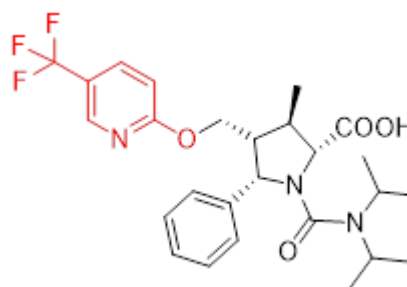
コード番号 ISK-b-16

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**WO 2019193062**

( AbbVie S.a.r.l, Luxembourg )

< Cystic Fibrosis Transmembrane Conductance  
Regulator (CFTR) modulators >

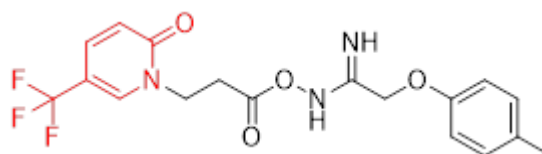


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**US 20190315681**

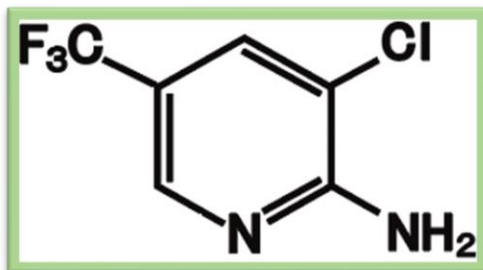
( THE TRUSTEES OF COLUMBIA  
UNIVERSITY IN THE CITY OF  
NEW YORK )

< Preparation of small molecule  
ferroptosis inducers as GPX4 inhibitors >



## 2-Amino-3-chloro-5- (trifluoromethyl) pyridine

2-アミノ-3-クロロ-5-(トリフルオロメチル)ピリジン



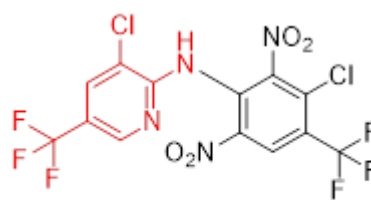
**略称 2,3,5-ACTF**

コード番号 ISK-b-17

### EP 31257

(Ishihara Sangyo Kaisha, Ltd., Japan)

<Fungicide>

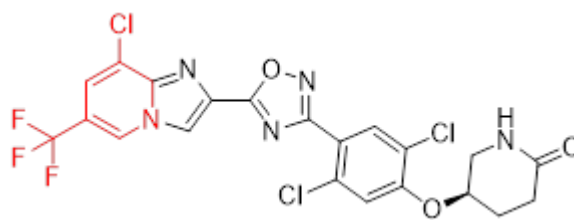


Fluazinam

### WO 2018211324

(Oppilan Pharma Ltd, UK)

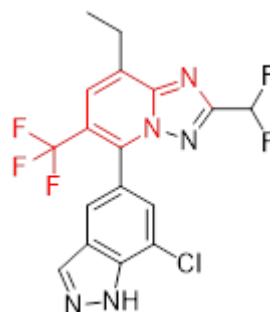
<sphingosine-1-phosphate (S1P) receptor modulators>



### US 20180111933

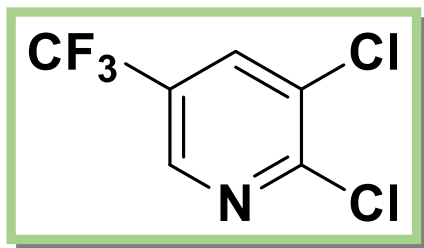
(Janssen Pharmaceutica NV, Belg.)

<AMPA receptor modulators>



## 2,3-Dichloro-5-(trifluoromethyl) pyridine

2,3-ジクロロ-5-(トリフルオロメチル)ピリジン



略称 2,3,5-DCTF

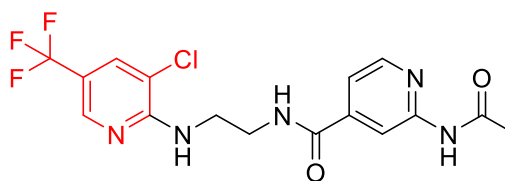
コード番号 ISK-b-18

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### WO2018235851

(Raqualia Pharma Inc., Japan)

< Nav1.7 and Nav1.8 blockers >

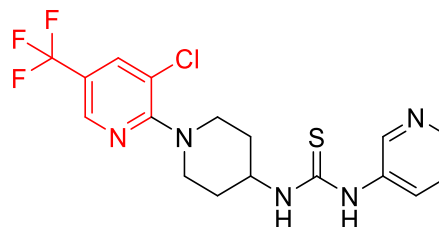


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### WO 2019222267

(The Scripps Research Institute, USA)

< Abhd12 inhibitors useful in treatment of diseases >



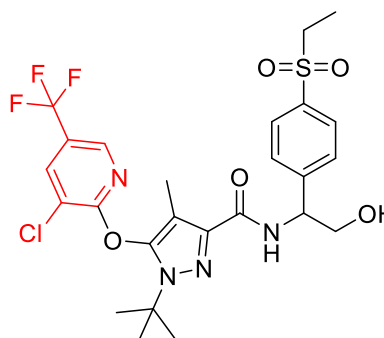
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### JP202059651

(Kaken Pharmaceutical Co., Ltd., Japan;

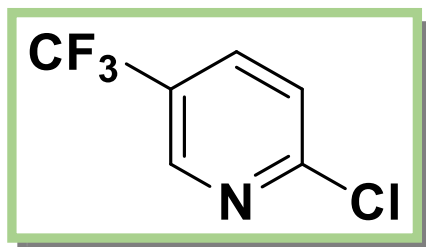
Meiji Seika Pharma Co., Ltd. )

<pyrazole derivative as ROR γ t inhibitor >



## 2-Chloro-5- (trifluoromethyl) pyridine

### 2-クロロ-5-(トリフルオロメチル)ピリジン



**略称 2,5-CTF**

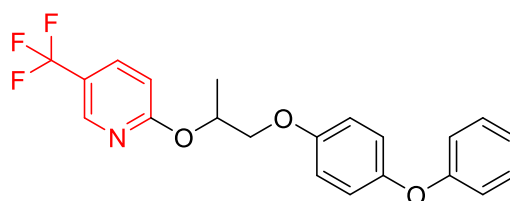
コード番号 ISK-b-19

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### WO 2018237084

(SHY Therapeutics LLC, USA)

<the Ras superfamily for the treatment of cancers, inflammatory diseases, rasopathies, and fibrotic disease>

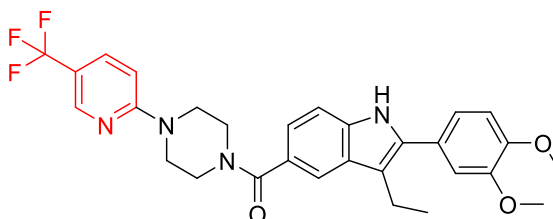


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### WO 2019126081

(Bristol-Myers Squibb Company, USA)

<TLR inhibitors>

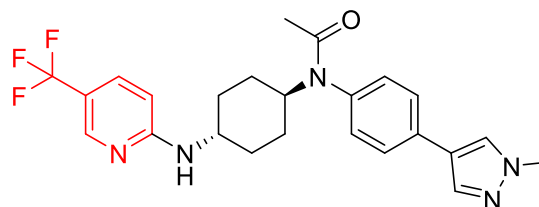


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### WO 2019189555

(Takeda Pharmaceutical Company Limited, Japan)

< CDK12-inhibiting effect >

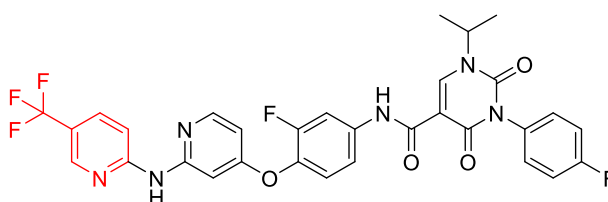


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### WO 2019213340

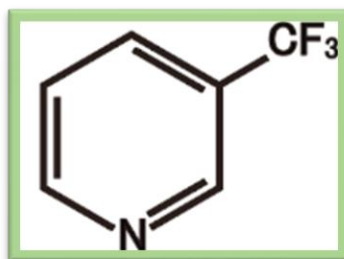
(Bristol-Myers Squibb Company, USA)

< Mer-Axl inhibitors >



### 3- (Trifluoromethyl) pyridine

### 3- (トリフルオロメチル) ピリジン



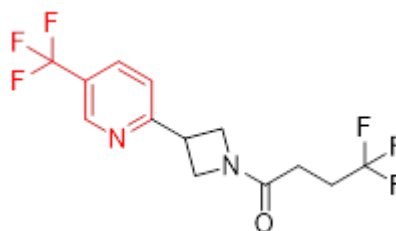
### 略称 3-TF

コード番号 ISK-b-20

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### WO 2019/034702

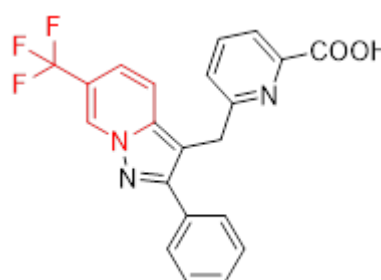
(GlaxoSmithKline Intellectual Property  
Development Limited, UK; Bioversys AG)  
<the treatment of mycobacterial infections>



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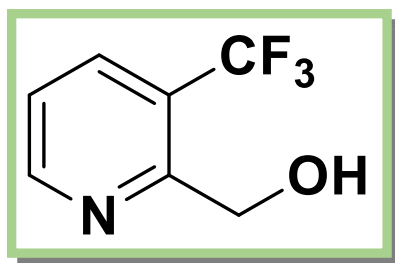
### W O 2012/102297

(Kyorin Pharmaceuticals Co., Ltd.,  
Kissei Pharmaceutical Co., Ltd.)  
< E P 1 Receptor antagonism >



### 3- (Trifluoromethyl) pyridine-2-methanol

### 3- (トリフルオロメチル) ピリジン-2-メタノール



略称 2,3-HmTF

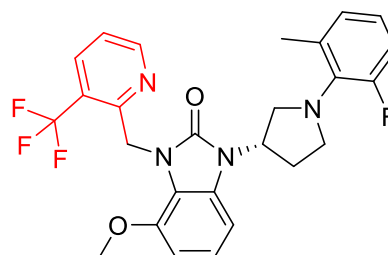
コード番号 ISK-b-21

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#### WO 2019141803

(Idorsia Pharmaceuticals Ltd., Switz.)

<C5a receptor modulators>

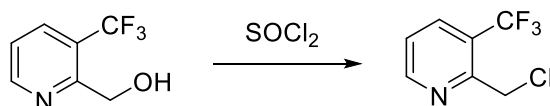
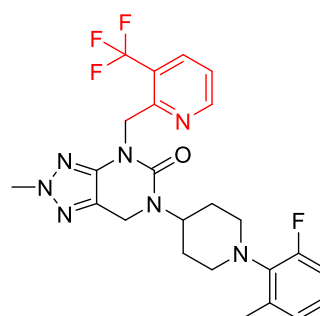


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#### WO 2019137927

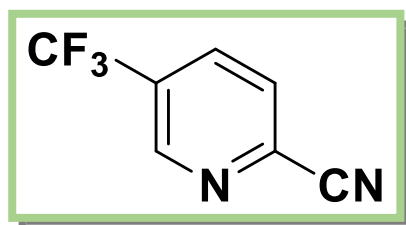
(Idorsia Pharmaceuticals Ltd, Switz.)

<C5a receptor modulators>



## 2-Cyano-5- (trifluoromethyl) pyridine

2-シアノ-5-(トリフルオロメチル)ピリジン



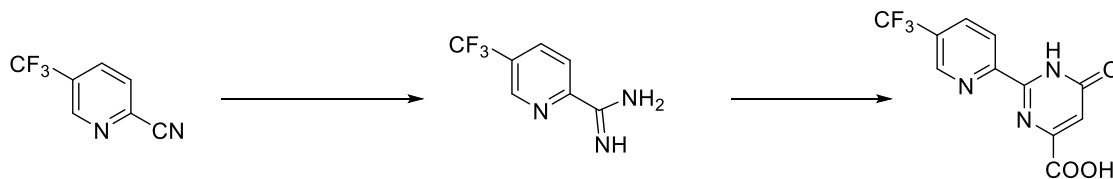
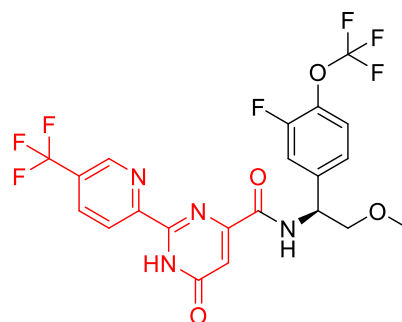
**略称 5-TF-2-CN**

コード番号 ISK-b-22

### WO 2015060368

(TAKEDA PHARMACEUTICAL COMPANY LIMITED)

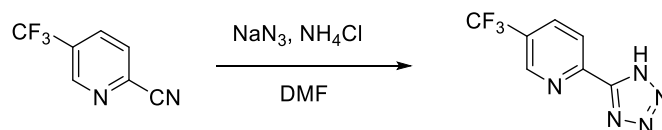
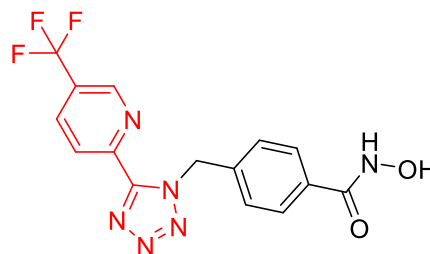
<SELECTIVE PDE2A INHIBITORS>



### WO 2018189340

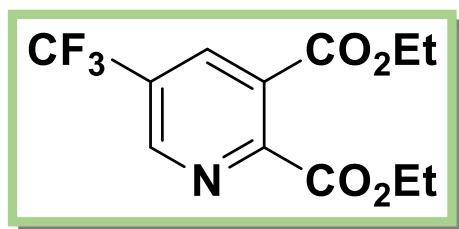
(ITALFARMACO S.P.A.)

<SELECTIVE HDAC6 INHIBITORS>



# Diethyl 5- (trifluoromethyl) pyridine-2,3-dicarboxylate

ジエチル 5- (トリフルオロメチル) ピリジン-2,3-ジカルボキシレート



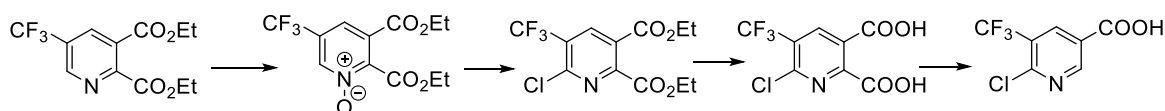
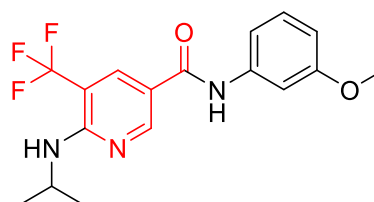
**略称 5-TF-2,3-Bis-CO2Et**

コード番号 ISK-b-23

## WO 2009016088

( F. Hoffmann-La Roche A.-G., Switz.)

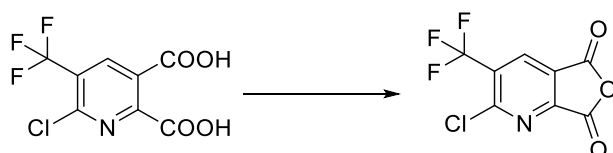
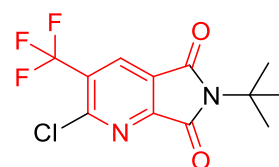
<substituted benzamide derivatives for use as CNS agents>



## US 5679622

( BASF )

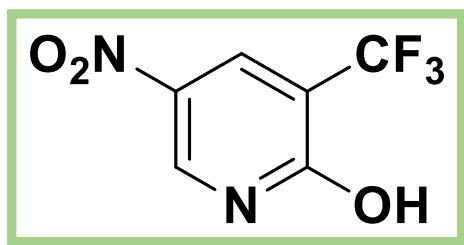
<herbicides>





## 2-Hydroxy-5-nitro-3- (trifluoromethyl) pyridine

2-ヒドロキシ-5-ニトロ-3-(トリフルオロメチル)ピリジン



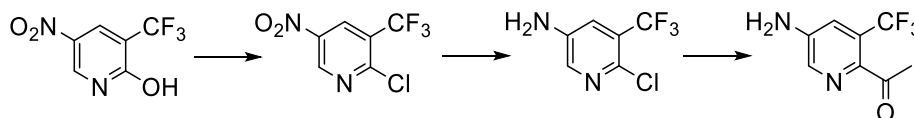
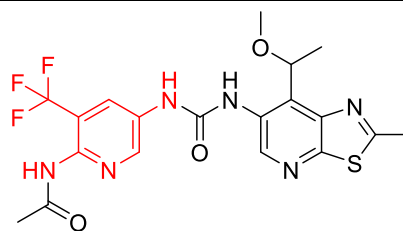
略称 **2,5,3-HNTF**

コード番号 ISK-b-24

### WO 2016037578

(GlaxoSmithKline Intellectual Property  
Development Limited, UK)

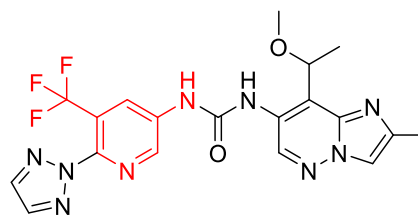
<RET kinase inhibitors>



### WO 2020111087

(Takeda Pharmaceutical Company  
Limited, Japan)

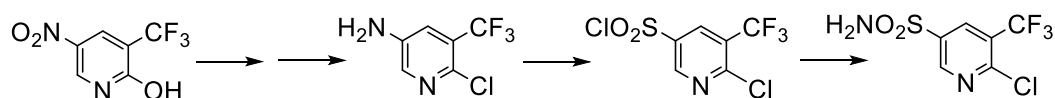
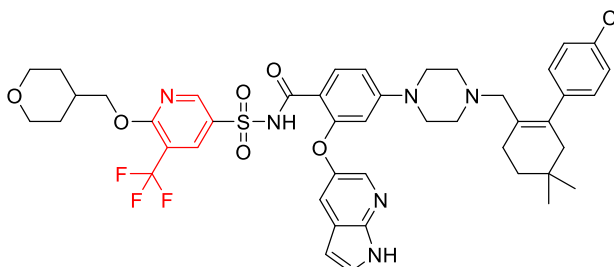
<MALT1 inhibitory effect, antitumor agent>



### US20110124628

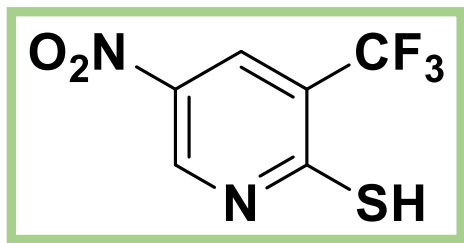
(Abbott Laboratories, USA)

<treatment of cancer >



2-Mercapto-5-nitro-3- (trifluoromethyl) pyridine

2-メルカプト-5-ニトロ-3- (トリフルオロメチル) ピリジン



**略称** 2,5,3-MNTF

コード番号 ISK-b-25

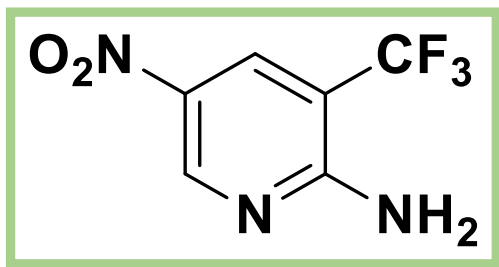
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**NO PATENT**

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## 2-Amino-5-nitro-3- (trifluoromethyl) pyridine

2-アミノ-5-ニトロ-3-(トリフルオロメチル)ピリジン



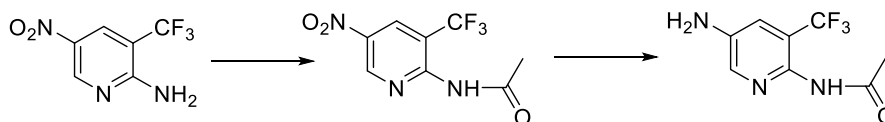
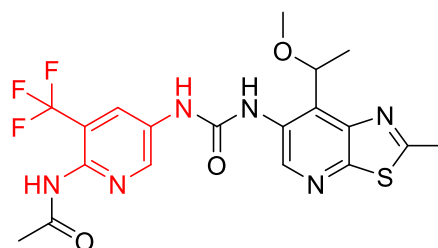
**略称 2,5,3-ANTF**

コード番号 ISK-b-26

**WO 2018020474**

(Lupin Limited, India)

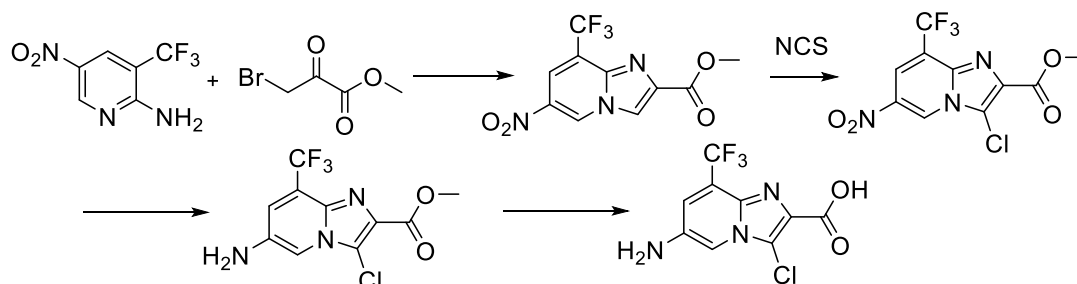
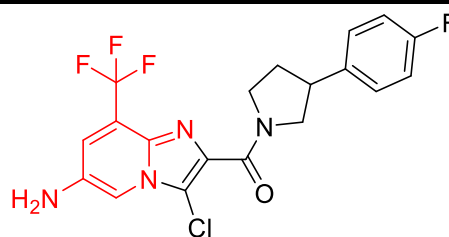
<MALT1 inhibitors>



**WO 2009023179**

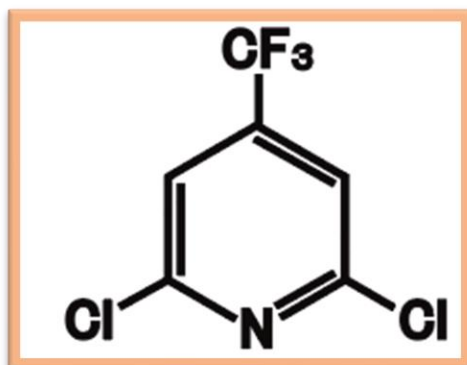
(Genelabs Technologies, Inc., USA)

<antiviral agents>



## 2,6-Dichloro-4-(trifluoromethyl) pyridine

2,6-ジクロロ-4-(トリフルオロメチル)ピリジン



**略称 2,6,4-DCTF**

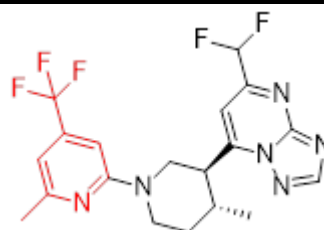
コード番号 ISK-c-1

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### WO 2018083103

( Janssen Pharmaceutica NV, Belg.)

< PDE2 inhibitors >

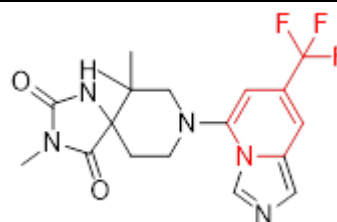


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### WO 2018136887

( TESARO, Inc., USA )

< inhibitors of indoleamine 2,3-dioxygenase  
and/or tryptophan dioxygenase >

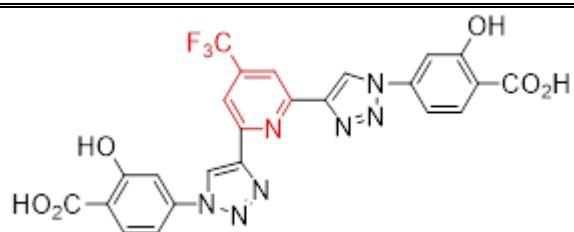


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### WO 2019135975

( Stratos Genomics Inc., USA )

<nucleic acid polymerization enhancers>



## 2-Chloro-4- (trifluoromethyl) pyridine

### 2-クロロ-4-(トリフルオロメチル)ピリジン



**略称 2,4-CTF**

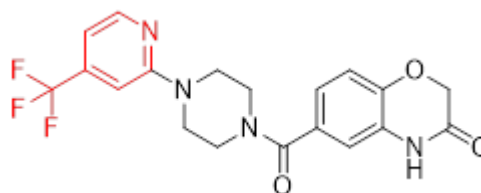
コード番号 ISK-c-2

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### WO 2019105915

(F. Hoffmann-La Roche AG, Switz.)

< inhibiting monoacylglycerol lipase >

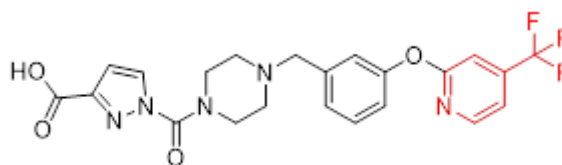


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### WO 2018217805

( Abide Therapeutics, Inc., USA )

< MAGL inhibitors useful in treatment of pain >

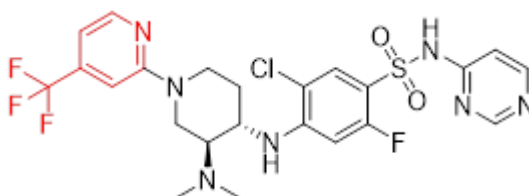


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### WO 2019165290

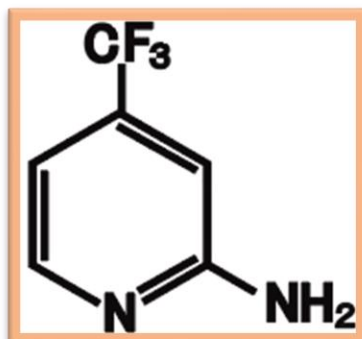
( Genentech, Inc., USA )

< novel compounds having sodium channelblocking activity that are useful for the treatment of pain >



## 2-Amino-4- (trifluoromethyl) pyridine

2-アミノ-4-(トリフルオロメチル)ピリジン



**略称 2,4-ATF**

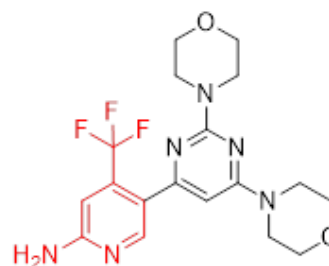
コード番号 ISK-c-3

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### WO 2014064058

( Novartis AG, Switz.)

< Improved process for manufacturing  
phosphatidylinositol 3-kinase (PIK3) inhibitor >



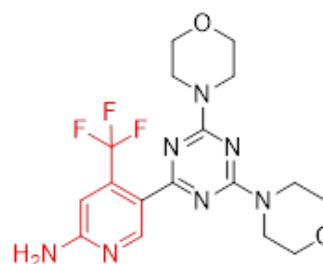
BKM-120, AN2025

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### WO 2010052569

( University of Basel, Switz.)

< phosphoinositide 3-kinase (PI3K) and mammalian  
target of rapamycin (mTOR) inhibitor compds >



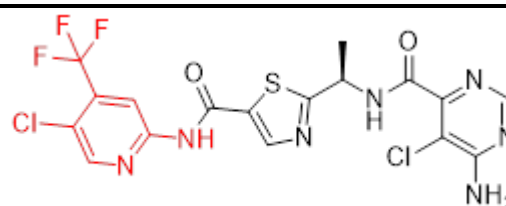
PQR309

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### WO 2009006389

( Sunesis Pharmaceuticals, Inc., USA )

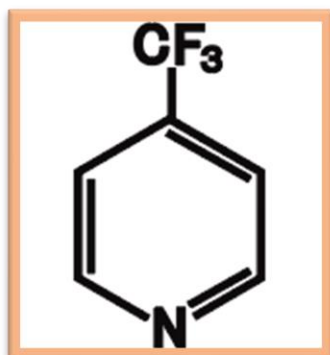
< Raf kinase inhibitors >



MLN-2480, TAK-580

## 4- (Trifluoromethyl) pyridine

### 4- (トリフルオロメチル) ピリジン

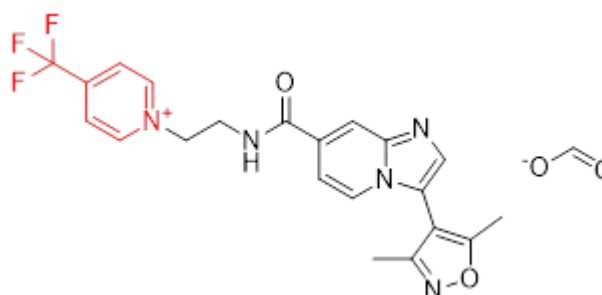


**略称 4-TF**

コード番号 ISK-c-4

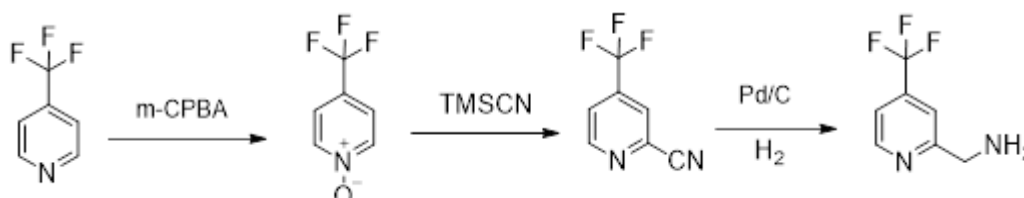
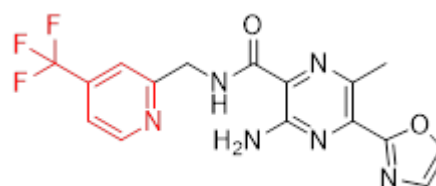
## WO 2019081353

(Bayer Aktiengesellschaft, Germany)  
< α<sub>2</sub>B-adrenoreceptor antagonists >



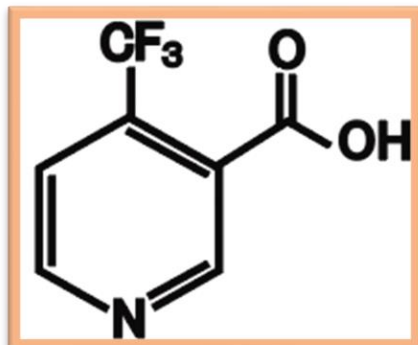
## WO 2016/081290

MERCK SHARP & DOHME CORP.  
<AMINOPYRAZTNE COMPOUNDS WITH adenosine-2  
receptor ANTAGONIST PROPERTIES >



## 4- (Trifluoromethyl) nicotinic acid

### 4- (トリフルオロメチル) ニコチン酸



**略称 4-TFNA**

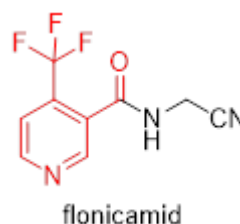
コード番号 ISK-c-5

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### EP 580374

(Ishihara Sangyo Kaisha, Ltd., Japan)

<Preparation of nicotinamides as pesticides>

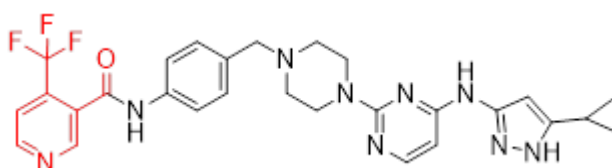


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### EP 30700084

( Rottapharm Biotech S.r.l.)

<new selective FYN kinase inhibitors>

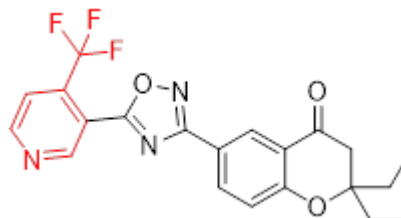


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### WO 2018/231745

(TREVENA, INC. USA)

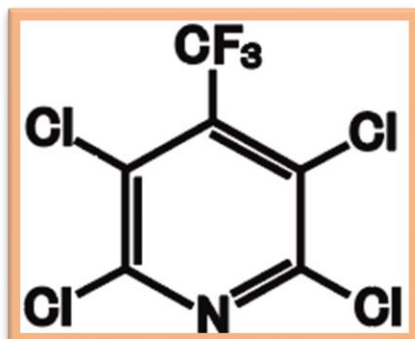
<MODULATING S1P1 ACTIVITY>





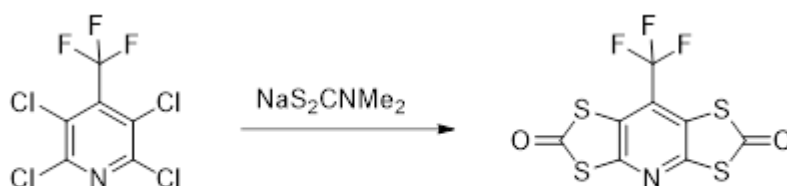
## 2,3,5,6-Tetrachloro-4- (trifluoromethyl) pyridine

2,3,5,6-テトラクロロ-4-(トリフルオロメチル)ピリジン



**略称** 2,3,5,6,4-TCTF

コード番号 ISK-c-6

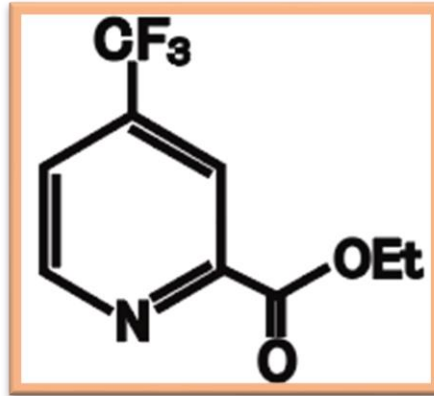


Khimiya Geterotsiklicheskikh Soedinenii (1994), (9), 1278-84.

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## Ethyl 4- (trifluoromethyl) picolinate

4- (トリフルオロメチル) ピコリン酸エチルエステル



**略称** 4-TF-2-CO<sub>2</sub>Et

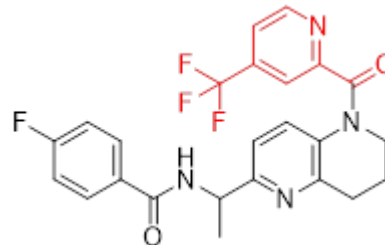
コード番号 ISK-c-7

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### WO 2019089412

(Merck Sharp & Dohme Corp., USA)

< indoleamine 2,3-dioxygenase inhibitors >



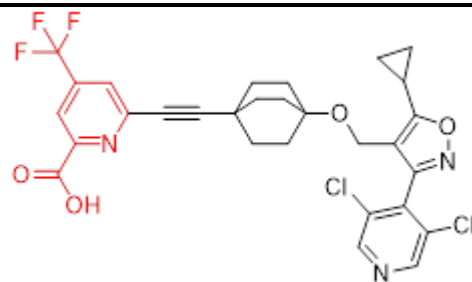
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### US 20190127358

(Syngene International Limited, India;

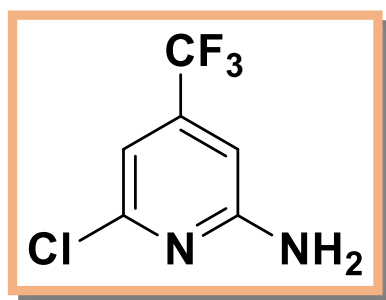
Bristol-Myers Squibb Company)

< farnesoid X receptor modulators >



2-Amino-6-chloro-4- (trifluoromethyl) pyridine

2-アミノ-6-クロロ-4-(トリフルオロメチル)ピリジン



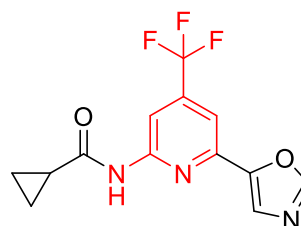
**略称 2,6,4-ACTF**

コード番号 ISK-c-8

**WO 2014163162**

(Takeda Pharmaceutical Company  
Limited, Japan)

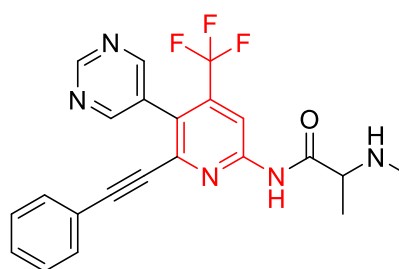
< inhibitors of cholesterol 24-hydroxylase >



**US20130225567**

(Boehringer Ingelheim International  
GmbH, Germany )

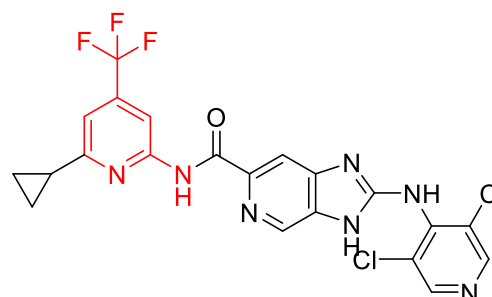
< 5-alkynylpyridines as SMAC mimetics >



**W02010034798**

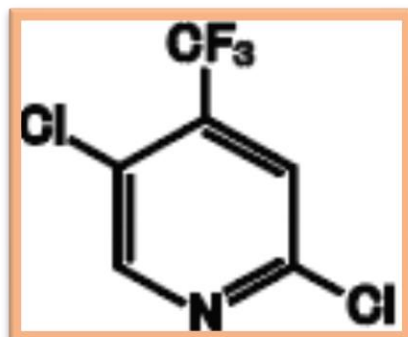
(Boehringer Ingelheim International  
GmbH, Germany )

< anti-inflammatory agents >



## 2,5-Dichloro-4-(trifluoromethyl) pyridine

2,5-ジクロロ-4-(トリフルオロメチル)ピリジン



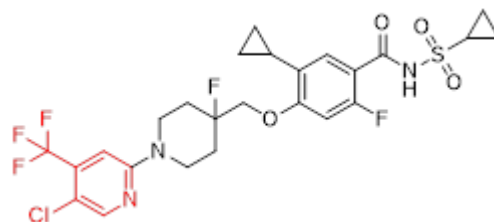
**略称 2,5,4-DCTF**

コード番号 ISK-c-9

### US 20160340309

(Genentech, Inc., USA; Xenon Pharmaceuticals Inc.)

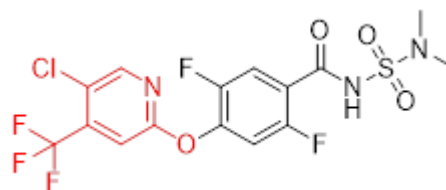
<sodium channel inhibitors>



### WO 2013102826

(Pfizer Limited, UK)

<Nav 1.7 inhibitors>

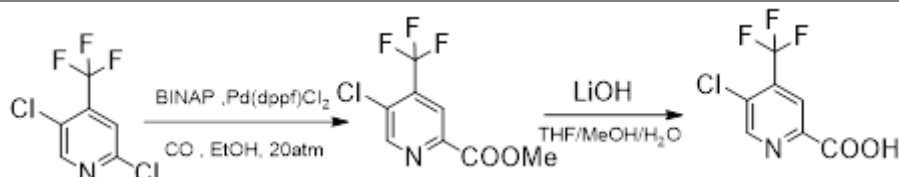
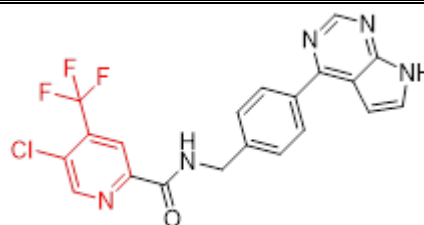


### WO 2015/089327

(BIOGEN IDEC MA INC.,

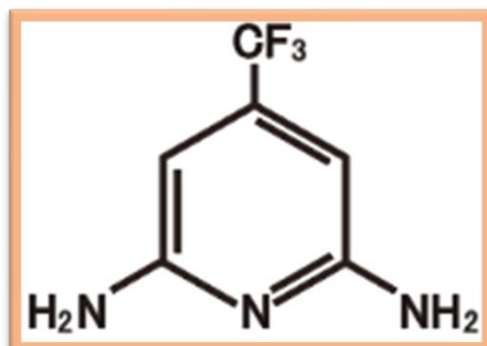
SUNESIS PHARMACEUTICALS, INC.)

<inhibitors of Bruton's tyrosine kinase>



## 2,6-Diamino-4- (trifluoromethyl) pyridine

2,6-ジアミノ-4-(トリフルオロメチル)ピリジン



**略称 2,6,4-DATF**

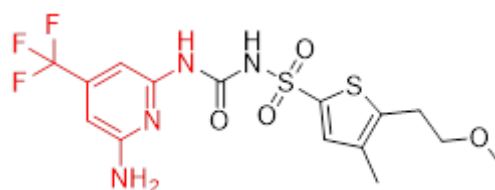
コード番号 ISK-c-10

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### WO 2009/068468

(F. Hoffmann-La Roche AG, Switz.)

<fructose-1,6-bisphosphatase inhibitors for  
use in treating diseases such as diabetes>

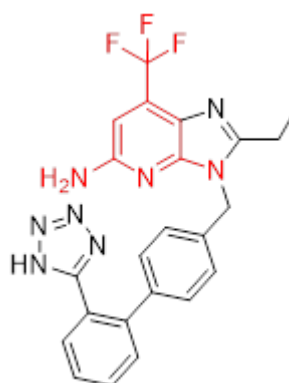


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### US 5332744 (1994)

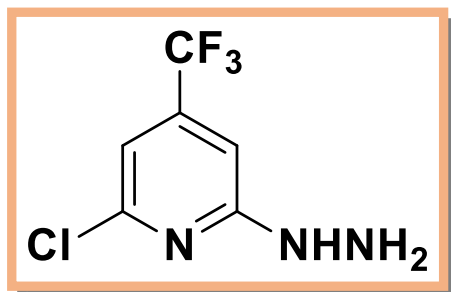
(Merck and Co., Inc., USA)

<angiotensin II antagonists.>



2-Chloro-6-hydrazino-4- (trifluoromethyl) pyridine

2-クロロ-6-ヒドラジノ-4- (トリフルオロメチル) ピリジン



**略称 2,6,4-CHrTF**

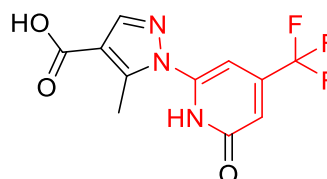
コード番号 ISK-c-11

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**WO 2017059191**

(Quartet Medicine, Inc., USA)

< sepiapterin reductase inhibitors >

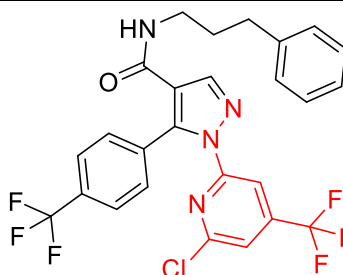


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**US20050080087**

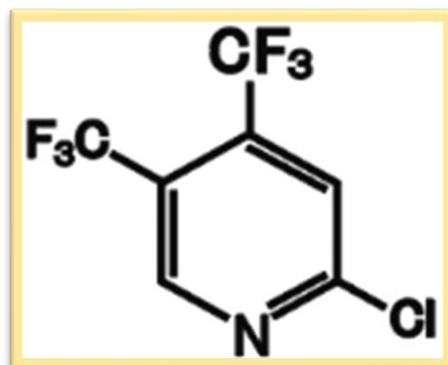
(Bristol-Myers Squibb Company, USA )

< cannabinoid receptor modulators >



## 2-Chloro-4,5-bis (trifluoromethyl) pyridine

2-クロロ-4,5-ビス(トリフルオロメチル)ピリジン



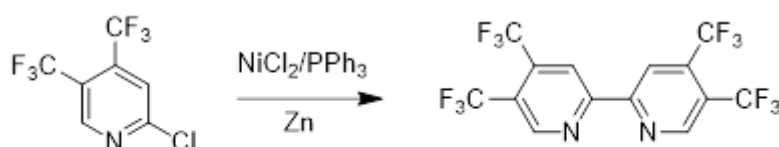
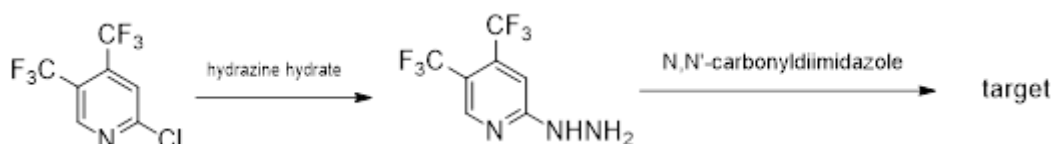
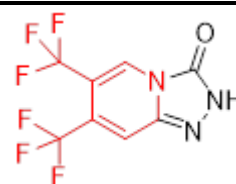
**略称 2,4,5-CBiTF**

コード番号 ISK-d-2

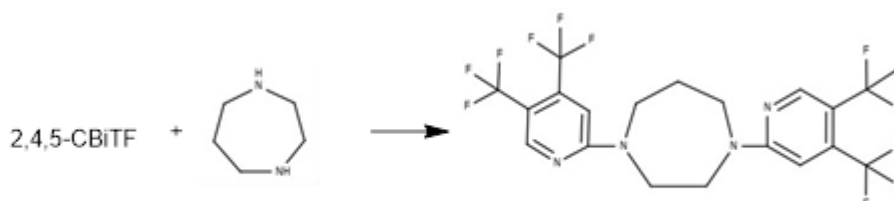
**WO 2019043635**

(Richter Gedeon Nyrt., Hung.)

< D-amino acid oxidase inhibitors (triazolopyridinone compounds ) >



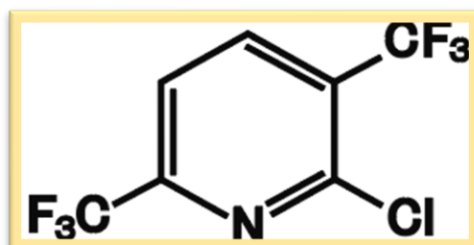
Tetrahedron Letters (2016), 57(21), 2231-2232.



Heterocycles (1990), 31(7), 1217-20.

## 2-Chloro-3,6-bis (trifluoromethyl) pyridine

2-クロロ 3,6-ビス (トリフルオロメチル) ピリジン



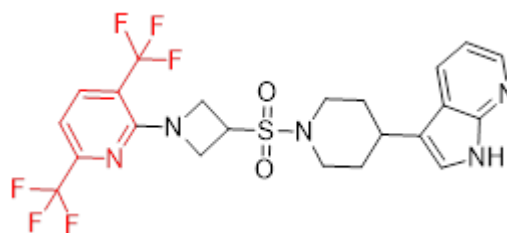
**略称 2,3,6-CBITF**

**コード番号 ISK-d-3**

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### WO 2018078360

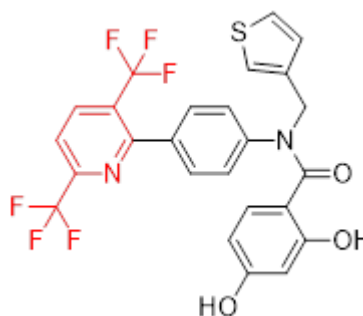
(E-Therapeutics PLC, UK)  
<cancer, fibrosis and chronic  
graft-vs.-host disease (cGVHD) >



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### WO 2015040425

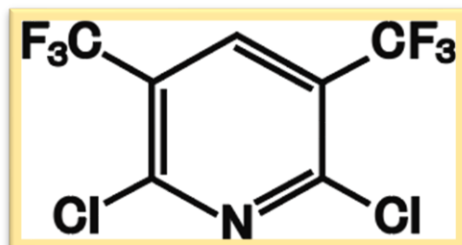
(Vernalis (R&D) Limited, UK)  
<PDK inhibitors and for inhibition of cancer  
cell proliferation >





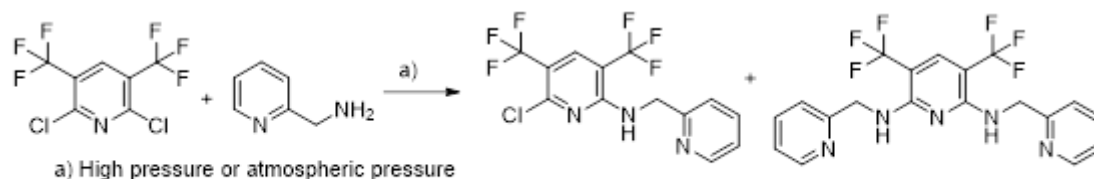
## 2,6-Dichloro-3,5-bis (trifluoromethyl) pyridine

2,6-ジクロロ-3,5-ビス(トリフルオロメチル)ピリジン



**略称** 2,6,3,5-DCBiTF

コード番号 ISK-d-4

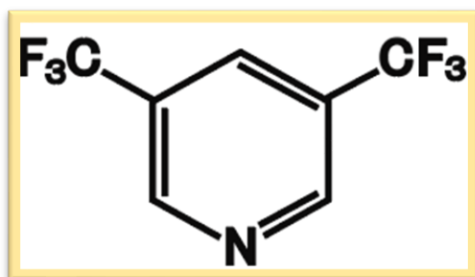


Chemistry Express (1992),7(6),473-6.

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## 3,5-Bis (trifluoromethyl) pyridine

3,5-ビス(トリフルオロメチル)ピリジン

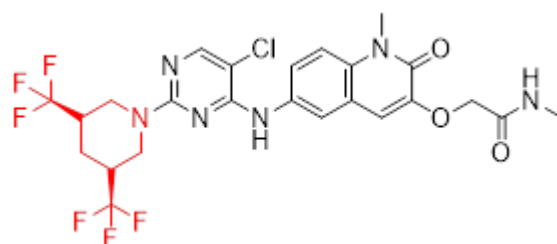


**略称 3,5-BiTF**

コード番号 ISK-d-5

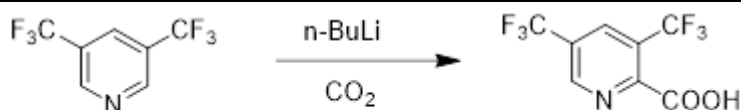
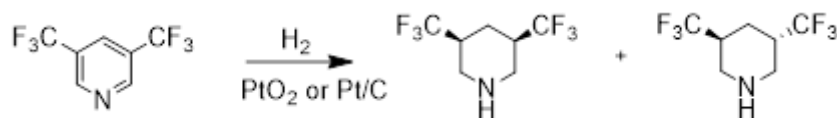
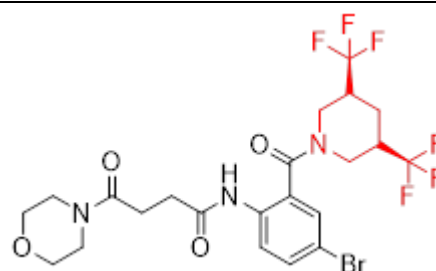
### WO 2018108704

(Boehringer Ingelheim International GmbH,  
Germany)  
<BCL6 inhibitors>



### WO 2008098859

(F. Hoffmann-La Roche A.-G., Switz.)  
<HCV polymerase inhibitors>



Tetrahedron (1994), 50(42), 12259-66.

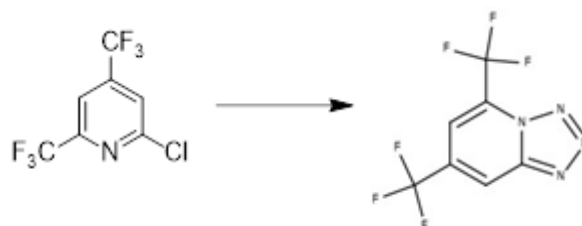
## 2-Chloro-4,6-bis (trifluoromethyl) pyridine

2-クロロ-4,6-ビス(トリフルオロメチル)ピリジン

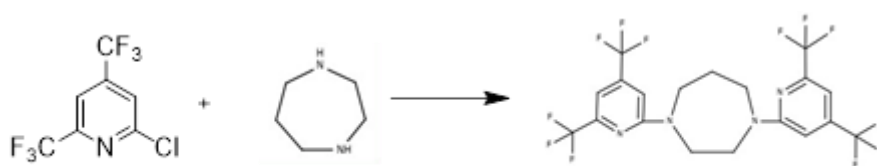


**略称 2,4,6-CBITF**

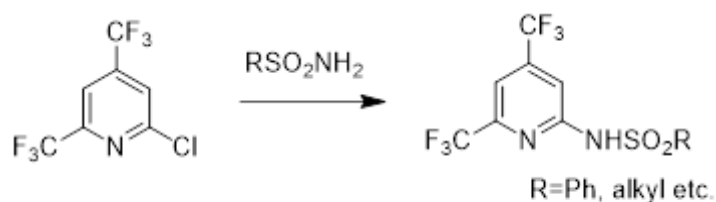
コード番号 ISK-d-6



Journal of the American Chemical Society (1996), 118(17), 4009-17.



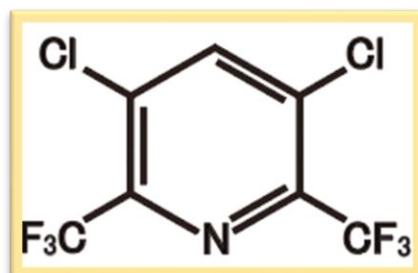
Heterocycles (1990), 31(7), 1217-20.



Chemical & Pharmaceutical Bulletin (2011), 59(6), 783-786.

## 3,5-Dichloro-2,6-bis (trifluoromethyl) pyridine

### 3,5-ジクロロ-2,6-ビス(トリフルオロメチル)ピリジン

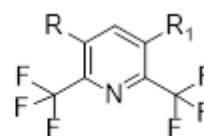


**略称 3,5,2,6-DCBiTF**

コード番号 ISK-d-7

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The title compd. ( $R = R_1 = \text{Cl}$ ) was aminated at 8 kbar and 100°C with a variety of secondary amines to give 3,5-diamino-2,6-bis(trifluoromethyl)pyridines ( $R = R_1 = \text{pyrrolidino, perhydroazepino, piperidino, morpholino, 4-methylpiperazino, thiomorpholino}$ ;  $R = \text{morpholino, R}_1 = \text{thiomorpholino}$ ) in excellent yields.

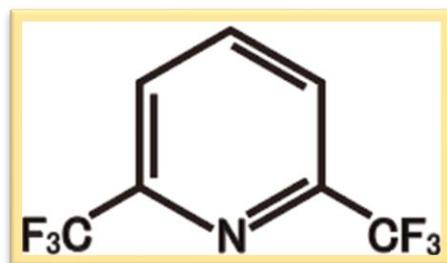


Chemistry Express (1988), 3(12), 739-42.

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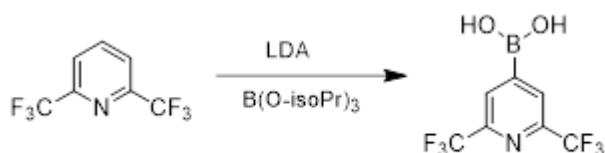
## 2,6-Bis (trifluoromethyl) pyridine

## 2,6-ビス(トリフルオロメチル)ピリジン

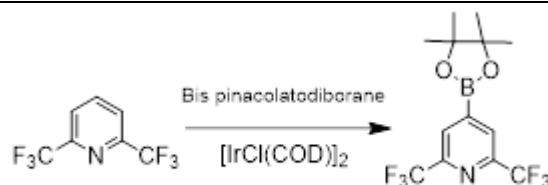


### 略称 2,6-BiTF

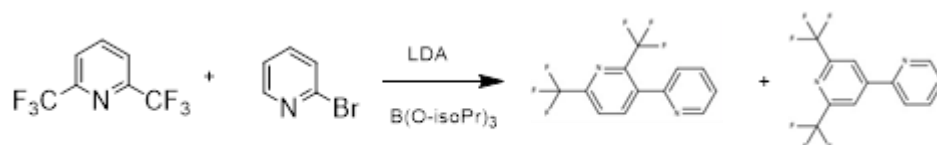
コード番号 ISK-d-8



New Journal of Chemistry (2017), 41(8), 3029-3035.

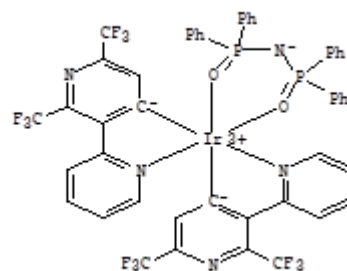


Synthesis (2017), 49(6), 1327-1334.



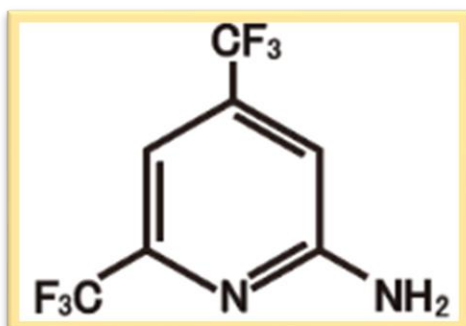
Journal of Materials Chemistry C: Materials for Optical and Electronic Devices (2019), 7(7), 2022-2028.

Journal of Materials Chemistry C: Materials for Optical and Electronic Devices (2019), 7(26), 7953-7958  
(Nanjing University)



## 2-Amino-4,6-bis (trifluoromethyl) pyridine

### 2-アミノ-4,6-ビス(トリフルオロメチル)ピリジン



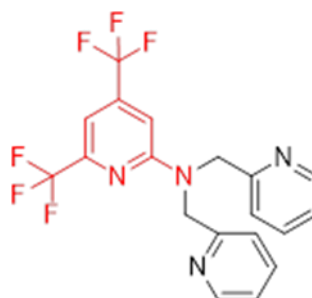
**略称 2,4,6-ABiTF**

コード番号 ISK-d-9

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### WO 2018108704

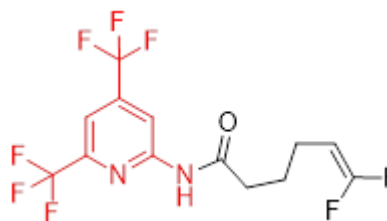
(Ishihara Sangyo Kaisha, Ltd., Japan)  
<Preparation of pyridyl-methanamine derivatives as  
pest control agents>



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### WO 2003084927

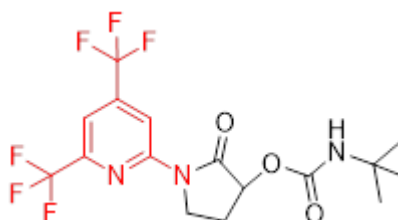
(Ishihara Sangyo Kaisha, Ltd., Japan)  
<Haloalkene amides, process for production  
thereof, and pest controllers containing the same>



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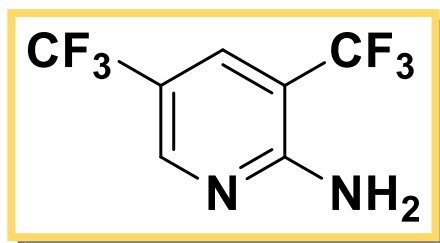
### WO 9533719

(Zeneca Ltd., UK)  
<Preparation of substituted pyrrolidones,  
thiazolidones, or oxazolidones as herbicides>



2-Amino-3,5-bis (trifluoromethyl) pyridine

2-アミノ-3,5-ビス(トリフルオロメチル)ピリジン



**略称 2,3,5-ABiTF**

コード番号 ISK-d-10

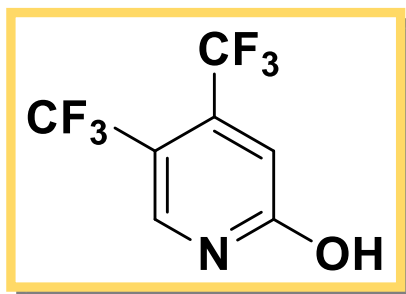
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**NO PATENT**

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2-Hydroxy-4,5-bis (trifluoromethyl) pyridine

2-ヒドロキシ-4,5-ビス(トリフルオロメチル)ピリジン



**略称 2,4,5-HBiTF**

コード番号 ISK-d-11

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**US 4725607**

(Imperial Chemical Industries PLC)

< INSECTICIDAL >

