PF-06426779

Cat. No.: HY-123854

CAS No.: 1817628-40-2

Molecular Formula: $C_{17}H_{18}FN_3O_4$

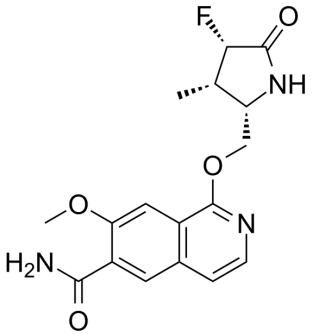
Molecular Weight: 347.34

Target: IRAK

Pathway: Immunology/Inflammation

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (287.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8790 mL	14.3951 mL	28.7902 mL
	5 mM	0.5758 mL	2.8790 mL	5.7580 mL
	10 mM	0.2879 mL	1.4395 mL	2.8790 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (5.99 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PF-06426779 is a potent and selective inhibitor of interleukin-1 receptor associated kinase 4 (IRAK4), with an IC_{50} of 0.3 nM [1].

IC_{50} & Target

IRAK4
0.3 nM (IC_{50})

In Vitro

PF-06426779 inhibits IRAK4, with an IC_{50} of 12.7 nM in the peripheral blood mononuclear cells (PBMCs) assay[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lee KL, et, al. Discovery of Clinical Candidate 1-{[(2S,3S,4S)-3-Ethyl-4-fluoro-5-oxopyrrolidin-2-yl]methoxy}-7-methoxyisoquinoline-6-carboxamide (PF-06650833), a Potent, Selective Inhibitor of Interleukin-1 Receptor Associated Kinase 4 (IRAK4), by Fragment-Based Drug Design. J Med Chem. 2017 Jul 13; 60(13): 5521-5542.

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