PF-06737007

Cat. No.: HY-112437

CAS No.: 1863905-38-7

Molecular Formula: $C_{25}H_{28}F_4N_2O_6$

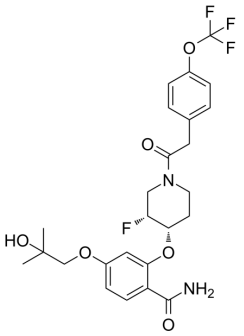
Molecular Weight: 528.49

Target: Trk Receptor

Pathway: Neuronal Signaling; Protein Tyrosine Kinase/RTK

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 (189.22 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8922 mL	9.4609 mL	18.9218 mL
5 mM	0.3784 mL	1.8922 mL	3.7844 mL
10 mM	0.1892 mL	0.9461 mL	1.8922 mL

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

BIOLOGICAL ACTIVITY

Description

PF-06737007 is a potent pan-Trk inhibitor in cell-based assays with IC_{50}s of 7.7 nM, 15 nM and 3.9 nM for TrkA, TrkB and TrkC, respectively[1]. Anti-hyperalgesic effect[1].

IC_{50} & Target

TrkA	TrkB	TrkC
7.7 nM (IC_{50}, in cell-based assays)	15 nM (IC_{50}, in cell-based assays)	3.9 nM (IC_{50}, in cell-based assays)

In Vitro

PF-06737007 (Compound 13b) exhibits superb Trk selectivity with >95% inhibition of TrkA with no other kinase being inhibited by >40% at 1 μM[1].

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

REFERENCES

[1]. Bagal SK, et al. Discovery of Potent, Selective, and Peripherally Restricted Pan-Trk Kinase Inhibitors for the Treatment of Pain. J Med Chem. 2018 Aug 9;61(15):6779-6800.

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