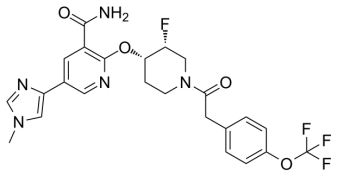
PF-6683324

Cat. No.:	HY-112436
CAS No.:	1799788-94-5
Molecular Formula:	$C_{24}H_{23}F_4N_5O_4$
Molecular Weight:	521.46
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 (191.77 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9177 mL	9.5885 mL	19.1769 mL
	5 mM	0.3835 mL	1.9177 mL	3.8354 mL
	10 mM	0.1918 mL	0.9588 mL	1.9177 mL

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

BIOLOGICAL ACTIVITY

Description

PF-6683324 (Trk-IN-4) is a potent pan-Trk inhibitor in cell-based assays with IC_{50}s of 1.9 nM, 2.6 nM and 1.1 nM for TrkA, TrkB and TrkC, respectively[1]. Anti-hyperalgesic effect[1].

IC_{50} & Target

TrkA	TrkB	TrkC
1.9 nM (IC_{50}, in cell-based assays)	2.6 nM (IC_{50}, in cell-based assays)	1.1 nM (IC_{50}, in cell-based assays)

In Vitro

PF-6683324 (Trk-IN-4) (Compound 10b) exhibits superb Trk selectivity with >95% inhibition of TrkA and >40% inhibition of only 1 other kinase VEGFR2 (cell-based assay for VEGFR2 IC_{50}>5 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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