

PF-06273340

Chemical Properties

CAS No. : 1402438-74-7

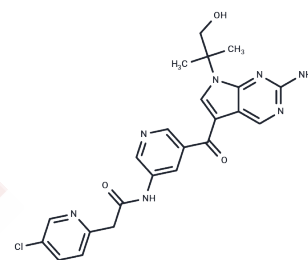
Formula: C₂₃H₂₂ClN₇O₃

Molecular Weight: 479.92

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	PF-06273340 is an effective, Selective, and Peripherally Restricted Pan-Trk inhibitor (IC ₅₀ : Trk-A = 6 nM; Trk-B = 4 nM; Trk-C = 3 nM). PF-06273340 has low metabolic turnover in HLM and hHep is a good substrate for efflux transporters P-gp (ER = 35.7) and BCRP (ER = 4.0) and has moderate passive permeability (RRCK Papp = 5.4 × 10 ⁻⁶ cm ² s ⁻¹).
Targets(IC ₅₀)	Trk receptor

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 90 mg/mL (187.53 mM),Sonication is recommended. Ethanol: 1 mg/mL (2.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0837 mL	10.4184 mL	20.8368 mL
5 mM	0.4167 mL	2.0837 mL	4.1674 mL
10 mM	0.2084 mL	1.0418 mL	2.0837 mL
50 mM	0.0417 mL	0.2084 mL	0.4167 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Skerratt SE, Andrews MD, Bagal SK, Bilsland J, Brown D, Bungay PJ, Cole S, Gibson KR, Jones R, Morao I, Nedderman A, Omoto K, Robinson C, Ryckmans T, Skinner K, Stupple PA, Waldron G. The Discovery of a Potent, Selective and Peripherally Restricted Pan-Trk Inhibitor (PF-06273340) for the Treatment of Pain. J Med Chem. 2016 Oct 21. [Epub ahead of print] PubMed PMID: 27766865.

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