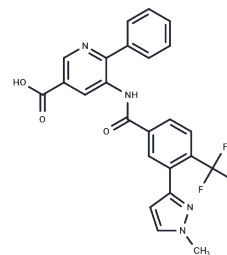


TrkA-IN-3

Chemical Properties

CAS No. :	3026111-73-6
Formula:	C ₂₄ H ₁₇ F ₃ N ₄ O ₃
Molecular Weight:	466.41
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	TrkA-IN-3 is a selective small-molecule inhibitor with an IC ₅₀ value of 22.4 nM. TrkA-IN-3 targets the tyrosine kinase activity of the nerve growth factor receptor TrkA, thereby blocking its downstream signaling pathways. In vitro, TrkA-IN-3 inhibits the proliferation and signal transduction of TrkA-positive cells and is commonly used to study the biological mechanisms underlying neuronal growth, pain signaling, and related tumor cells.
Targets(IC50)	Others, Trk receptor

Solubility Information

Solubility	DMSO: 40 mg/mL (85.76 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	2.144 mL	10.7202 mL	21.4404 mL
5 mM	0.4288 mL	2.144 mL	4.2881 mL
10 mM	0.2144 mL	1.072 mL	2.144 mL
50 mM	0.0429 mL	0.2144 mL	0.4288 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

Tang S, et al. Design, development and evaluation of a prodrug-type TrkA-selective inhibitor with antinociceptive effects in vivo. *Eur J Med Chem.* 2023 Jan 5;245(Pt 2):114901.

Wang T, et al. Trk kinase inhibitors as new treatments for cancer and pain. *Expert Opin Ther Pat.* 2009;19(3):305-319.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481