

TrkA-IN-4

Chemical Properties

CAS No. : 3026111-74-7
Formula: C₂₇H₂₁F₃N₄O₅
Molecular Weight: 538.48
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-4 is a highly potent, orally active TrkA allosteric inhibitor that is metabolized in vivo as a prodrug to its active form, TrkA-IN-3. TrkA-IN-4 has demonstrated effective anti-injury effects.
Targets(IC50)	Others,Trk receptor
In vivo	TrkA-IN-4 (0.9375-120 mg/kg; i.g.) exhibits stronger maximum antinociceptive effects 3 h after administration, with an ED50 of 7.836 mg/kg in hot plate testing on male mice.[1]

Solubility Information

Solubility	DMSO: 40 mg/mL (74.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8571 mL	9.2854 mL	18.5708 mL
5 mM	0.3714 mL	1.8571 mL	3.7142 mL
10 mM	0.1857 mL	0.9285 mL	1.8571 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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