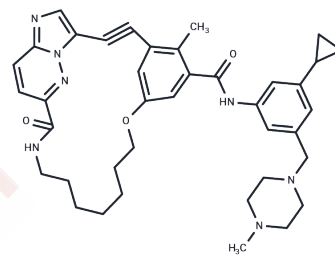


TRK-IN-24

## Chemical Properties

CAS No. : 2937544-01-7  
 Formula: C39H45N7O3  
 Molecular Weight: 659.82  
 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	TRK-IN-24 (compound 10g) is a selective inhibitor of Trk receptors, effectively targeting TRKA, TRKC, and mutant forms TRKA G595R, TRKA G667C, and TRKA F589L, with corresponding IC50 values of 5.21, 4.51, 6.77, 1.42, and 6.13 nM. It demonstrates antitumor activity in BaF3-CD74-NTRK1 G595R and BaF3-CD74-NTRK1 G667C xenograft models and inhibits the proliferation of Ba/F3 cells expressing single mutants SF, GK, and xDFG, with an IC50 range of 1.43-47.56 nM [1].
Targets(IC50)	Trk receptor
In vitro	TRK-IN-24 (Compound 10g) at concentrations ranging from 3.7 to 300 nM inhibits the phosphorylation of AKT, TRKA, PLCy1, and ERK in Ba/F3 cells [1].
In vivo	TRK-IN-24 (compound 10g) administered at 50 mg/kg for 10-14 days resulted in 72% and 78% tumor regression in murine xenograft models of BaF3-CD74-NTRK1 G595R and BaF3-CD74-NTRK1 G667C, respectively [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5156 mL	7.5778 mL	15.1556 mL
5 mM	0.3031 mL	1.5156 mL	3.0311 mL
10 mM	0.1516 mL	0.7578 mL	1.5156 mL
50 mM	0.0303 mL	0.1516 mL	0.3031 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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

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