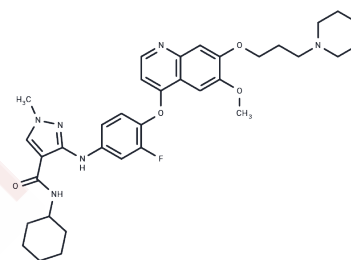


AXL-IN-13

Chemical Properties

CAS No. :	2376928-82-2
Formula:	C34H41FN6O5
Molecular Weight:	632.72
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	AXL-IN-13 is a potent and orally active AXL inhibitor with an IC50 of 1.6 nM and a Kd of 0.26 nM. It exhibits anticancer activity, reverses TGF-β1-induced epithelial-mesenchymal transition (EMT), and inhibits cancer cell migration and invasion.
Targets(IC50)	FLT,PDGFR,TAM Receptor,TGF-beta/Smad
In vitro	AXL-IN-13 (Compound 6li) inhibits Ba/F3-TEL-AXL cell proliferation with an IC50 of 4.7 nM (as determined by ELISA).[1] AXL-IN-13 (0-500 nM; 6 hours) inhibits AXL phosphorylation in MDA-MB-231 and 4T1 cells.[1] AXL-IN-13 also shows binding affinity for CSF1R, FLT1/3/4, KLT, PDGFRB, TIE2.[1] AXL-IN-13 (0-3 μM; 3 days) blocks TGF-β1 (10 ng/mL)-induced EMT in MDA-MB-231 cells. [1] AXL-IN-13 (0-3 μM; 24 hours) inhibits TGF-β1 (10 ng/mL)-induced migration and invasion of MDA-MB-231 cells.[1]
In vivo	AXL-IN-13 (Compound 6li) (50 or 100 mg/kg; p.o.; 14 days; Xenograft model derived from highly metastatic 4T1 cells) inhibits 4T1 tumor growth and metastasis.[1] AXL-IN-13 (25 mg/kg; oral; Xenograft model derived from highly metastatic 4T1 cells) shows a good PK curve, with an AUC of 8410.21 ng/mL/h, a T1/2 value of 4.22 h, and an oral bioavailability (F) of 14.4%.[1]

Solubility Information

Solubility	DMSO: 6.33 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.58 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5805 mL	7.9024 mL	15.8048 mL
5 mM	0.3161 mL	1.5805 mL	3.161 mL
10 mM	0.158 mL	0.7902 mL	1.5805 mL
50 mM	0.0316 mL	0.158 mL	0.3161 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

Chan S, et al. Discovery of 3-Aminopyrazole Derivatives as New Potent and Orally Bioavailable AXL Inhibitors. J Med Chem. 2022;65(22):15374-15390.

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