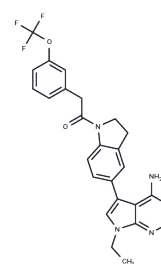


RIPK1-IN-7

Chemical Properties

CAS No. :	2300982-44-7
Formula:	C ₂₅ H ₂₂ F ₃ N ₅ O ₂
Molecular Weight:	481.47
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	RIPK1-IN-7 is a potent and selective inhibitor of RIPK1 (K _d of 4 nM and enzymatic IC ₅₀ of 11 nM), exhibiting excellent antimetastasis activity in the experimental B16 melanoma lung metastasis model.
Targets(IC ₅₀)	RIP kinase
In vitro	In the TSZ-induced HT29 cell necroptosis model, RIPK1-IN-7 shows potent cell protection effect (EC ₅₀ of 2nM). RIPK1-IN-7 displays considerable activity against several other kinases(Flt4, TrkA, TrkB, TrkC, Axl, HRI, Mer, and MAP4K5 with IC ₅₀ s of 20, 26, 8, 7, 35, 26, 29, and 27 nM, respectively).

Solubility Information

Solubility	DMSO: 60 mg/mL (124.62 mM),Sonication is recommended. H ₂ O: 0.1 mg/mL (0.21 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.15 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	2.077 mL	10.3849 mL	20.7697 mL
5 mM	0.4154 mL	2.077 mL	4.1539 mL
10 mM	0.2077 mL	1.0385 mL	2.077 mL
50 mM	0.0415 mL	0.2077 mL	0.4154 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

Li Y, et al. Identification of 5-(2,3-Dihydro-1 H-indol-5-yl)-7 H-pyrrolo[2,3- d]pyrimidin-4-amine Derivatives as a New Class of Receptor-Interacting Protein Kinase 1 (RIPK1) Inhibitors, Which Showed Potent Activity in a Tumor Metastasis Model. J Med Chem. 2018 Dec 27;61(24):11398-11414.

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