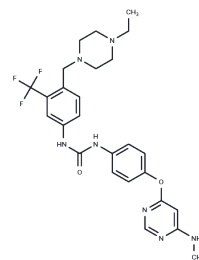


AST 487

Chemical Properties

CAS No. :	630124-46-8
Formula:	C ₂₆ H ₃₀ F ₃ N ₇ O ₂
Molecular Weight:	529.56
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	AST 487 (NVP-AST 487) is a RET kinase inhibitor, inhibiting RET autophosphorylation and activation of downstream effectors. It also can inhibit Flt-3.
Targets(IC50)	FLT,c-RET,Bcr-Abl,c-Kit,VEGFR

Solubility Information

Solubility	DMSO: 50 mg/mL (94.42 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: 2 mg/mL (3.78 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	1.8884 mL	9.4418 mL	18.8836 mL
5 mM	0.3777 mL	1.8884 mL	3.7767 mL
10 mM	0.1888 mL	0.9442 mL	1.8884 mL
50 mM	0.0378 mL	0.1888 mL	0.3777 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

Akeno-Stuart N, et al. The RET Kinase Inhibitor NVP-AST487 Blocks Growth and Calcitonin Gene Expression through Distinct Mechanisms in Medullary Thyroid Cancer Cells. *Cancer Res.* 2007 Jul 15;67(14):6956-64.

Agarwal N, Zhou Q, Arya D, et al. AST-487 Inhibits RET Kinase Driven TERT Expression in Bladder Cancer. *International Journal of Molecular Sciences.* 2022, 23(18): 10819.

Weisberg E, et al. Antileukemic effects of the novel, mutant FLT3 inhibitor NVP-AST487: effects on PKC412-sensitive and -resistant FLT3-expressing cells. *Blood.* 2008 Dec 15;112(13):5161-70.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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