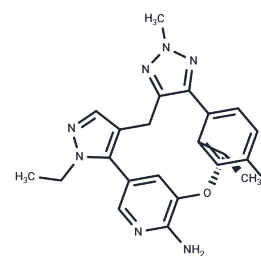


Zidesamtinib

Chemical Properties

CAS No. :	2739829-00-4
Formula:	C ₂₂ H ₂₂ FN ₇ O
Molecular Weight:	419.455
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	Zidesamtinib (NVL-520) is an orally active, selective, potent, and blood-brain-barrier-crossing inhibitor of ROS1 fusion and resistance mutations, inhibits ROS1 and ROS1 G2032R, and can be used in the study of non-small-cell lung cancer and solid tumors.
Targets(IC50)	ROS Kinase
In vivo	Female athymic Nude-Foxn1nu mice were subcutaneously implanted with tumor fragments from the CTG-0848 model. Zidesamtinib (0.04, 0.2, 1, 5, 15 mg/kg; oral gavage twice daily for 21 days) inhibited tumor volumes[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (357.61 mM), Sonification 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: 1.5 mg/mL (3.58 mM), Sonication is recommended. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (23.84 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (23.84 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.384 mL	11.9201 mL	23.8402 mL
5 mM	0.4768 mL	2.384 mL	4.768 mL
10 mM	0.2384 mL	1.192 mL	2.384 mL
50 mM	0.0477 mL	0.2384 mL	0.4768 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

Drilon A, et al. NVL-520 is a selective, TRK-sparing, and brain-penetrant inhibitor of ROS1 fusions and secondary resistance mutations. *Cancer Discov.* 2022 Dec 13;CD-22-0968.

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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