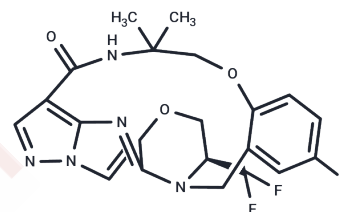


Zotizalkib

Chemical Properties

CAS No. :	2648641-36-3
Formula:	C ₂₁ H ₂₀ F ₃ N ₅ O ₃
Molecular Weight:	447.41
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Zotizalkib (TPX-0131) is an orally active and selective ALK inhibitor with antitumor activity for the study of non-small cell lung cancer.
Targets(IC50)	ALK
In vitro	Zotizalkib effectively inhibited wild-type ALK with an IC ₅₀ value of 1.4 nM, and also showed inhibitory activity against 26 ALK resistance mutations. Zotizalkib also showed effective inhibition of ALK autophosphorylation in Ba/F3 cells expressing EML4-ALK G1202R, EML4-ALK G1202R/L1196M or EML4-ALK G1202R/L1198F mutations, with an IC ₅₀ value of about 3-10 nM. [1]
In vivo	Zotizalkib was administered orally at a dose of 2-10 mg/kg twice daily for 2 weeks, with the 2 mg/kg, 5 mg/kg, and 10 mg/kg doses exhibiting 64%, 120%, and 200% dose-dependent tumor growth inhibition, respectively. [1]

Solubility Information

Solubility	DMSO: 20 mg/mL (44.7 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 (4.47 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	2.2351 mL	11.1754 mL	22.3509 mL
5 mM	0.447 mL	2.2351 mL	4.4702 mL
10 mM	0.2235 mL	1.1175 mL	2.2351 mL
50 mM	0.0447 mL	0.2235 mL	0.447 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

Murray BW, et al. TPX-0131, a Potent CNS-penetrant, Next-generation Inhibitor of Wild-type ALK and ALK-resistant Mutations. Mol Cancer Ther. 2021 Sep;20(9):1499-1507.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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