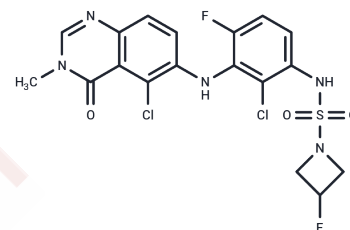


Claturafenib

Chemical Properties

CAS No. :	2754408-94-9
Formula:	C ₁₈ H ₁₅ Cl ₂ F ₂ N ₅ O ₃ S
Molecular Weight:	490.31
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	Claturafenib (PF-07799933) is a brain-permeable, selective, all-mutant BRAF inhibitor with broad inhibitory effects on pERK levels in HT29 cells. Claturafenib has shown antitumor activity in preclinical studies in both BRAF V600- and non-V600-mutant cancers and can be used in combination with MEK inhibitors.
Targets(IC50)	Raf,PERK

Solubility Information

Solubility	DMSO: 80 mg/mL (163.16 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: 3.3 mg/mL (6.73 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	2.0395 mL	10.1976 mL	20.3953 mL
5 mM	0.4079 mL	2.0395 mL	4.0791 mL
10 mM	0.204 mL	1.0198 mL	2.0395 mL
50 mM	0.0408 mL	0.204 mL	0.4079 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

Rona Yaeger, et al. A Next-Generation BRAF Inhibitor Overcomes Resistance to BRAF Inhibition in Patients with BRAF-Mutant Cancers Using Pharmacokinetics-Informed Dose Escalation. *Cancer Discov.* 2024 Sep 4;14(9):1599-1611.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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