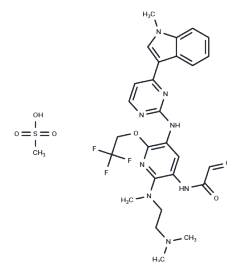


Alflutinib mesylate

Chemical Properties

CAS No. :	2130958-55-1
Formula:	C ₂₉ H ₃₅ F ₃ N ₈ O ₅ S
Molecular Weight:	664.70
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	Alflutinib mesylate (AST2818 mesylate) ,is an irreversible tyrosine kinase inhibitor that selectively inhibits EGFR mutations, especially T790M.
Targets(IC50)	EGFR

Solubility Information

Solubility	DMSO: 55.00 mg/mL (82.74 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: 1 mg/mL (1.5 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	1.5044 mL	7.5222 mL	15.0444 mL
5 mM	0.3009 mL	1.5044 mL	3.0089 mL
10 mM	0.1504 mL	0.7522 mL	1.5044 mL
50 mM	0.0301 mL	0.1504 mL	0.3009 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

Liu X, Li W, Zhang Y, et al. Simultaneous determination of alflutinib and its active metabolite in human plasma using liquid chromatography-tandem mass spectrometry[J]. J Pharm Biomed Anal. 2019 Nov 30;176:112735.
Y. Shi, et al. P2.03-028 Third Generation EGFR Inhibitor AST2818 (Alflutinib) in NSCLC Patients with EGFR T790M Mutation: A phase 1/2 Multi-Center Clinical Trial. J Thorac Oncol. 2017 Nov, 12(11): S2138.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481