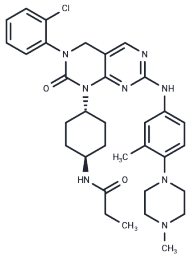
Data Sheet (Cat.No.T15615)

TargetMol

JND3229

Chemical Properties



CAS No. : 2260886-64-2

Formula: C33H41ClN8O2

Molecular Weight: 617.18

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	JND3229 is a reversible EGFRC797S inhibitor with IC50 values of 5.8, 6.8 and 30.5 nM for EGFRL858R/T790M/C797S, EGFRWT and EGFRL858R/T790M, respectively. JND3229 has good anti-proliferative activity and can effectively inhibit tumour growth in vivo. JND3229 can be used in cancer research, especially in non-small cell carcinoma.
Targets(IC50)	EGFR
In vitro	JND3229 potently inhibits the proliferation of BaF3 cells (harboring the EGFRL858R/T790M/C797S and EGFR19D/T790M/C797Smutations), NCI-H1975 NSCLC cells (with EGFRT790M mutation) and A431 cancer cells (overexpressing EGFRWT) with IC50 values of 0.51, 0.32, 0.31 and 0.27 μM, respectively. JND3229 (0.1, 0.3, 1, 3, 10 μM; 2 h) potently inhibits the phosphorylation of EGFRL858R/T790M/C797S and EGFR19D/T790M/C797S in engineering BaF3 cells[1].
In vivo	JND3229 (10 mg/kg; i.p.; twice daily for 10 days) exhibits an obvious suppression of tumor growth, and shows target inhibition in vivo[1].

Solubility Information

Solubility	DMSO: 11.7 mg/mL (18.96 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 (1.62 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6203 mL	8.1014 mL	16.2027 mL
5 mM	0.3241 mL	1.6203 mL	3.2405 mL
10 mM	0.162 mL	0.8101 mL	1.6203 mL
50 mM	0.0324 mL	0.162 mL	0.3241 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

Lu X, et al. Discovery of JND3229 as a New EGFRC797S Mutant Inhibitor with In Vivo Monodrug Efficacy. ACS Med Chem Lett. 2018 Oct 8;9(11):1123-1127.

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