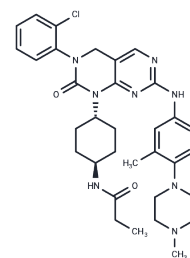


JND3229

Chemical Properties

CAS No. : 2260886-64-2
 Formula: C₃₃H₄₁ClN₈O₂
 Molecular Weight: 617.18
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	JND3229 is a reversible EGFR C797S inhibitor with IC ₅₀ values of 5.8, 6.8 and 30.5 nM for EGFR L858R/T790M/C797S, EGFR WT and EGFR L858R/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(IC ₅₀)	EGFR
In vitro	JND3229 potently inhibits the proliferation of BaF3 cells (harboring the EGFR L858R/T790M/C797S and EGFR 19D/T790M/C797S mutations), NCI-H1975 NSCLC cells (with EGFR T790M mutation) and A431 cancer cells (overexpressing EGFR WT) with IC ₅₀ 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 EGFR L858R/T790M/C797S and EGFR 19D/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 (19 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble)
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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.

Reference

Lu X, et al. Discovery of JND3229 as a New EGFR C797S Mutant Inhibitor with In Vivo Monodrug Efficacy. ACS Med Chem Lett. 2018 Oct 8;9(11):1123-1127.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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