

## EGFR-IN-82

## Chemical Properties

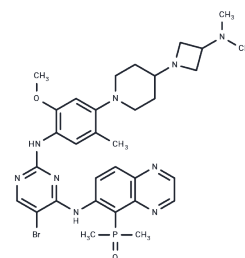
CAS No. : 2568086-81-5

Formula: C32H41BrN9O2P

Molecular Weight: 694.6

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	EGFR-IN-82 (Compound 8a) is a potent, orally active inhibitor of EGFR, exhibiting IC50 values of 0.09 nM for EGFR L858R/T790M/C797S and 0.06 nM for EGFR Del19/T790M/C797S. It lacks significant inhibitory effects on EGFR WT. Demonstrating anti-proliferative properties, EGFR-IN-82 also inhibits tumor growth in nude mice, rendering it applicable in non-small cell lung cancer research [1].
Targets(IC50)	EGFR
In vitro	EGFR-IN-82 (compound 8a), following a 72 hour exposure, significantly inhibited the growth of Ba/F3-EGFR Del19/T790M/C797S cells, with an IC50 value of 12.7 nM, yet exhibited no notable effect on the proliferation of A431 cells [1].
In vivo	EGFR-IN-82 (compound 8a) exhibits superior pharmacokinetic properties to Brigatinib [1]. When administered orally at 15-30 mg/kg for 14-21 days, EGFR-IN-82 moderately inhibits tumor growth in a PC9-EGFR Del19/T790M/C797S xenograft mouse model and significantly inhibits growth in a Ba/F3-EGFR Del19/T790M/C797S xenograft model [1]. Pharmacokinetic analysis in Balb/C mice showed the following parameters [1]: Route: p. o.; Dose: 5 mg/kg; C <sub>max</sub> : 1574 ng/mL; AUC <sub>0-t</sub> : 15375 ng/mL*h; AUC <sub>0-∞</sub> : 15632 ng/mL*h; t <sub>1/2</sub> : 3.5 h; MRT: 6 h.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4397 mL	7.1984 mL	14.3968 mL
5 mM	0.2879 mL	1.4397 mL	2.8794 mL
10 mM	0.144 mL	0.7198 mL	1.4397 mL
50 mM	0.0288 mL	0.144 mL	0.2879 mL

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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.

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