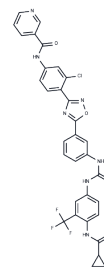


## EGFR-IN-8

## Chemical Properties

CAS No. :	2407957-87-1
Formula:	C <sub>32</sub> H <sub>23</sub> ClF <sub>3</sub> N <sub>7</sub> O <sub>4</sub>
Molecular Weight:	662.02
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-8, a dual inhibitor targeting both EGFR and c-Met, shows potential as a promising candidate for further development in treating EGFR TKI-resistant NSCLC.
Targets(IC50)	EGFR,c-Met/HGFR
In vitro	In A549, PC9, H1975, CL68, and CL97cells, EGFR-IN-8 (0-0.6 μM; 48 hours) suppresses the expression of EGFR and c-Met in these five cell lines irrespective of their mutational status. EGFR-IN-8 (0-20 μM; 24, 48, 72 hours) exhibits a time- and dose-dependent inhibitory effect on the viability of A549, PC9, H1975, CL68, and CL97cells at different time intervals, with IC50 values ranging from 0.3 to 0.6μM and 0.2-0.5μM after 48 and 72h of treatment respectively[1].
In vivo	EGFR-IN-8 (50,150mg/kg; oral gavage) exhibits suppression (29% and 60%, respectively) of H1975 xenograft tumor growth in a dose-dependent manner[1].

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5105 mL	7.5526 mL	15.1053 mL
5 mM	0.3021 mL	1.5105 mL	3.0211 mL
10 mM	0.1511 mL	0.7553 mL	1.5105 mL
50 mM	0.0302 mL	0.1511 mL	0.3021 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.

### Reference

Dokla EME, et al. 1,2,4-Oxadiazole derivatives targeting EGFR and c-Met degradation in TKI resistant NSCLC. Eur J Med Chem. 2019 Aug 9;182:111607.

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