

## Rezivertinib

## Chemical Properties

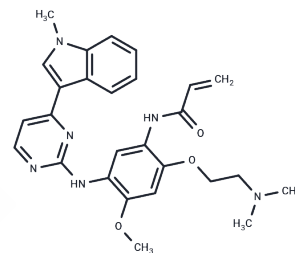
CAS No. : 1835667-12-3

Formula: C<sub>27</sub>H<sub>30</sub>N<sub>6</sub>O<sub>3</sub>

Molecular Weight: 486.57

Storage: Store at low temperature, Keep away from moisture  
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	Rezivertinib (BPI-7711) is an orally available, selective and potent inhibitor of tyrosine kinase (EGFR) with antitumor activity for central nervous system disorders.
Targets(IC50)	EGFR
In vitro	Rezivertinib selectively inhibits cellular proliferation of EGFR mutations in cell lines: PC9 (GI50=13.3 nM), HCC827 (GI50=6.8 nM), NCI-H1975 (GI50=22 nM) and A431 (GI50>1000 nM). [1]
In vivo	Rezivertinib administered orally for 14 days at 6.25-25 mg/kg/day demonstrated significant tumor regression. In addition, Rezivertinib administered orally at 50 mg/kg/day also showed anti-tumor effects, significantly improving the mean overall survival of the animals, which was prolonged from 13 to 28 days, a 115% improvement. [2]

## Solubility Information

Solubility	DMSO: 100 mg/mL (205.52 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: 4 mg/mL (8.22 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

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	1mg	5mg	10mg
1 mM	2.0552 mL	10.276 mL	20.552 mL
5 mM	0.411 mL	2.0552 mL	4.1104 mL
10 mM	0.2055 mL	1.0276 mL	2.0552 mL
50 mM	0.0411 mL	0.2055 mL	0.411 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

Nagasaka M, et al. Beyond Osimertinib: The Development of Third-Generation EGFR Tyrosine Kinase Inhibitors For Advanced EGFR+ NSCLC. J Thorac Oncol. 2021 May;16(5):740-763.

Victoria L. Wilde, et al. Preclinical evidence of BPL-7711 activity in Egfr-mutant non-smallcell lung cancer ( NSCLC ) in orthotopically implanted human tumorxenografts in the lung and brain.

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