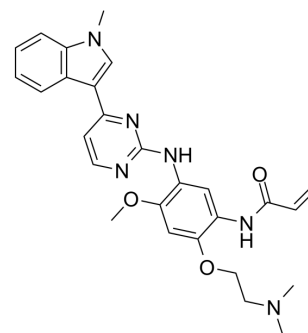


Rezivertinib

Cat. No.:	HY-109189		
CAS No.:	1835667-12-3		
Molecular Formula:	C ₂₇ H ₃₀ N ₆ O ₃		
Molecular Weight:	486.57		
Target:	EGFR		
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (256.90 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0552 mL	10.2760 mL	20.5520 mL
		5 mM	0.4110 mL	2.0552 mL	4.1104 mL
10 mM		0.2055 mL	1.0276 mL	2.0552 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.27 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.27 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Rezivertinib (BPI-7711) is an orally active, highly selective and irreversible third-generation EGFR tyrosine kinase inhibitor (TKI). Rezivertinib exhibits high potency against the common activation EGFR and the resistance T790M mutations. Rezivertinib has excellent central nervous system (CNS) penetration and has antitumor activity ^{[1][2]} .
IC₅₀ & Target	EGFR
In Vitro	Rezivertinib (BPI-7711) selectively inhibits cellular proliferation of EGFR mutations in cell lines: GI ₅₀ 13.3 nM (PC9, del19), 6.8 nM (HCC827, L858R), 22 nM (NCI-H1975, del19/T790M) and > 1000 nM (A431, EGFR WT) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Rezivertinib (BPI-7711; 6.25-25 mg/kg/day; orally; 14 days) shows significant tumor regression^[2].
Rezivertinib (12.5 mg/kg/day; orally; 14 days) survives an average of 112% longer in H1975-luc human NSCLC mice model^[2].
Rezivertinib (50 mg/kg/day; orally) has anti-tumor efficacy correlated to improved average overall survival of the animals of 115% (28 days vs. 13 days)^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Misako Nagasaka, 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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