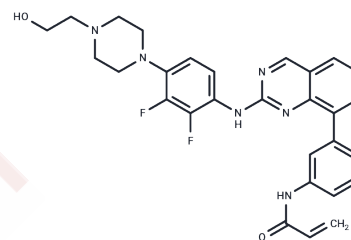


Olafertinib

Chemical Properties

CAS No. :	1660963-42-7
Formula:	C ₂₉ H ₂₈ F ₂ N ₆ O ₂
Molecular Weight:	530.57
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Olafertinib (RX-518) is a novel mutant-selective, irreversible, orally available EGFR inhibitor. It can overcome T790M-mediated resistance in NSCLC.
Targets(IC50)	EGFR
In vitro	CK-101 specifically targets the mutant forms of EGFR, including T790M, while exhibiting minimal activity toward WT EGFR. It selectively inhibits cell proliferation of cell lines expressing both the activating (HCC827, IC ₅₀ <15 nM) and resistance mutations (NCI-H1975, IC ₅₀ <5 nM).
In vivo	CK-101 significantly inhibits tumor growth in EGFR-mutated NSCLC tumor xenograft models, with no activity in the WT EGFR tumor xenograft model.

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 125 mg/mL (235.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (18.85 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (18.85 mM),Solution. <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

	1mg	5mg	10mg
1 mM	1.8848 mL	9.4238 mL	18.8477 mL
5 mM	0.377 mL	1.8848 mL	3.7695 mL
10 mM	0.1885 mL	0.9424 mL	1.8848 mL
50 mM	0.0377 mL	0.1885 mL	0.377 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.

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

Xiangping Qian, et al. Abstract 2078: CK-101 (RX518), a mutant-selective inhibitor of EGFR that overcomes T790M-mediated resistance in NSCLC.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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