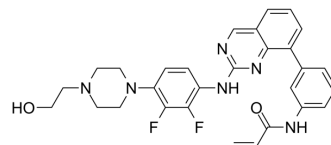


Olafertinib

Cat. No.:	HY-19815		
CAS No.:	1660963-42-7		
Molecular Formula:	C ₂₉ H ₂₈ F ₂ N ₆ O ₂		
Molecular Weight:	530.57		
Target:	EGFR		
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (235.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8848 mL	9.4238 mL	18.8477 mL
	5 mM	0.3770 mL	1.8848 mL	3.7695 mL
	10 mM	0.1885 mL	0.9424 mL	1.8848 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (3.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (3.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Olafertinib is a third-generation EGFR TKI, with GI₅₀ values of 5 nM (EGFR L858R/T790M), 10 nM (EGFR del19) and 689 nM (EGFR WT), respectively. Olafertinib has the potential for NSCLC research^[1].

IC₅₀ & Target

GI₅₀: 5 nM (EGFR L858R/T790M), 10 nM (EGFR del19), 689 nM (EGFR WT)^[1].

REFERENCES

- [1]. Misako Nagasaka, et al. Beyond osimertinib: The development of 3 rd-generation EGFR Tyrosine Kinase Inhibitors. J Thorac Oncol. 2020 Dec 15;S1556-0864(20)31105-9.

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

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