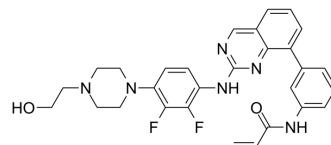


Olafertinib

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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	1. 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 2. 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 GI ₅₀ 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	GI ₅₀ : 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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