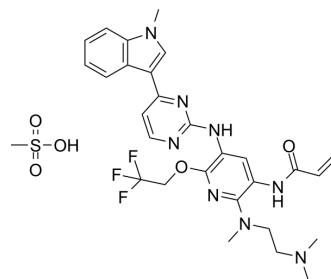


Firmonertinib mesylate

Cat. No.:	HY-112870A
CAS No.:	2130958-55-1
Molecular Formula:	C ₂₉ H ₃₅ F ₃ N ₈ O ₅ S
Molecular Weight:	664.7
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (7.52 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.5044 mL	7.5222 mL	15.0444 mL
		5 mM		0.3009 mL	1.5044 mL	3.0089 mL
10 mM		---	---	---		
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: ≥ 0.5 mg/mL (0.75 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (0.75 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.5 mg/mL (0.75 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Firmonertinib (Alflutinib) mesylate is a potent inhibitor of EGFR. Firmonertinib mesylate inhibits EGFR active mutations as well as the T790M acquired resistant mutation. Firmonertinib has the potential for the research of cancer diseases, especially non-small cell lung cancer (NSCLC) ^[1] .
IC₅₀ & Target	EGFR
In Vitro	Firmonertinib mesylate can inhibit EGFR active mutations as well as the T790M acquired resistant mutation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- JTO Clin Res Rep. 2023 Nov 27, 100614.
- Patent. US20220177473A1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Y. Shi, et al. P2.03-028 Third Generation EGFR Inhibitor AST2818 (Alflutinib) in NSCLC Patients with EGFR T790M Mutation: A phase1/2 Multi-Center Clinical Trial.

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

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