Firmonertinib mesylate

Cat. No.: HY-112870A

CAS No.: 2130958-55-1

Molecular Formula: $C_{29}H_{35}F_3N_8O_5S$

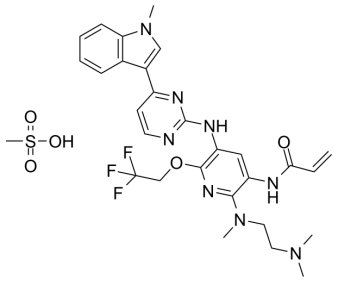
Molecular Weight: 664.7

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 / Concentration	1 mg	5 mg	10 mg
	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 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].

IC_{50} & 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.

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