Product Data Sheet

Larotinib mesylate hydrate

Cat. No.: HY-153110A CAS No.: 2097129-93-4 Molecular Formula: $C_{26}H_{36}CIFN_{4}O_{11}S_{2}$

Molecular Weight: 699.17

Target: EGFR; IRAK; Btk

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Immunology/Inflammation

4°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 25 mg/mL (35.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.4303 mL	7.1513 mL	14.3027 mL
	5 mM	0.2861 mL	1.4303 mL	2.8605 mL
	10 mM	0.1430 mL	0.7151 mL	1.4303 mL

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

BIOLOGICAL ACTIVITY

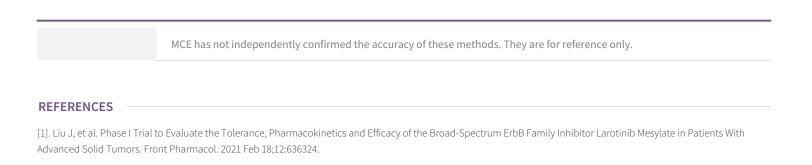
Description Larotinib mesylate hydrate is a potent broad-spectrum and orally active tyrosine kinase inhibitor (TKI) with EGFR as the main target with an IC_{50} of 0.6 nM^[1].

IC _{so} & Target	EGFR ^{L861Q} 0.423 nM (IC ₅₀)	EGFR ^{L858R} 0.563 nM (IC ₅₀)	EGFR (WT) 0.611 nM (IC ₅₀)	EGFR ^{T790M} 45.2 nM (IC ₅₀)
	HER4 84 nM (IC ₅₀)	BLK 102 nM (IC ₅₀)	IRAK-1 167 nM (IC ₅₀)	BTK 196 nM (IC ₅₀)
	HER2 253 nM (IC ₅₀)			

In Vivo

After daily administration of Larotinib mesylate hydrate, the no observed adverse effect level (NOAEL) is 10 mg/kg in Sprague-Dawley rats and the lowest observed adverse effect level (LOAEL) is 5 mg/kg in beagle dogs. The maximal tolerable doses (MTDs) are 20 and 25 mg/kg in Sprague-Dawley rats and beagle dogs, respectively^[1].

Larotinib mesylate hydrate shows dose-dependent antitumor results and a tumor-inhibiting rate exceeding 60% at 18 mg/kg in a tumor-bearing mice model (data not published)^[1].



 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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