EML4-ALK kinase inhibitor 1

Cat. No.: HY-111752

CAS No.: 1373409-08-5

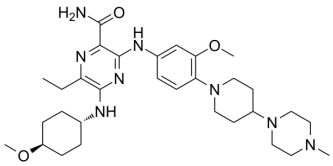
Molecular Formula: $C_{31}H_{48}N_8O_3$

Molecular Weight: 580.76

Target: ALK

Pathway: Protein Tyrosine Kinase/RTK

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 110 mg/mL (189.41 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7219 mL	8.6094 mL	17.2188 mL
	5 mM	0.3444 mL	1.7219 mL	3.4438 mL
	10 mM	0.1722 mL	0.8609 mL	1.7219 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: ≥ 5.5 mg/mL (9.47 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5.5 mg/mL (9.47 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

EML4-ALK kinase inhibitor 1 is a potent orally active inhibitor of echinoderm microtubule-associated protein-like 4-anaplastic lymphoma kinase (EML4-ALK), with an IC_{50} of 1 nM[1].

IC_{50} & Target

IC50: 1 nM (EML4-ALK)[1].

REFERENCES

[1]. Iikubo K, et al. Synthesis and structure-activity relationships of pyrazine-2-carboxamide derivatives as novel echinoderm microtubule-associated protein-like 4 (EML4)-anaplastic lymphoma kinase (ALK) inhibitors. Bioorg Med Chem. 2019 Apr 15;27(8):1683-1692.

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

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