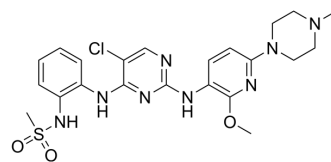


F-1

Cat. No.:	HY-112801
CAS No.:	2244775-31-1
Molecular Formula:	C ₂₂ H ₂₇ ClN ₈ O ₃ S
Molecular Weight:	519.02
Target:	Anaplastic lymphoma kinase (ALK); ROS Kinase
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (240.84 mM); ultrasonic and warming and heat to 65°C					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.9267 mL	9.6335 mL	19.2671 mL
		5 mM		0.3853 mL	1.9267 mL	3.8534 mL
		10 mM		0.1927 mL	0.9634 mL	1.9267 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.01 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (4.01 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.01 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	F-1 is a potent ALK and ROS1 dual inhibitor, suppresses phospho-ALK and its relative downstream signaling pathways, with IC ₅₀ s of 2.1 nM, 2.3 nM, 1.3 nM and 3.9 nM for ALK ^{WT} , ROS1 ^{WT} , ALK ^{L1196M} and ALK ^{G1202R} , respectively ^[1] .
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REFERENCES

[1]. Guo M, et al. Dual potent ALK and ROS1 inhibitors combating drug-resistant mutants: Synthesis and biological evaluation of aminopyrimidine-containing diarylamino pyrimidine derivatives. Eur J Med Chem. 2018 Sep 6;158:322-333.

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

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