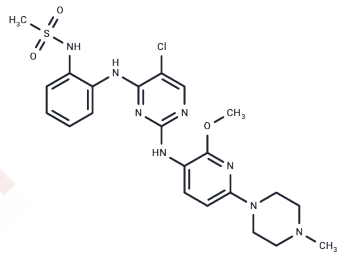
Data Sheet (Cat.No.T11254)

F-1

Chemical Properties



CAS No. : 2244775-31-1

Formula: C22H27ClN8O3S

Molecular Weight: 519.02

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	F-1 is IC50s of 2.1 nM, 2.3 nM, 1.3 nM and 3.9 nM for ALKWT, ROS1WT, ALKL1196M and ALKG1202R, respectively. F-1 is a potent ALK and ROS1 dual inhibitor, suppresses phospho-ALK and its relative downstream signaling pathways.
Targets(IC50)	ALK,ROS,ROS Kinase

Solubility Information

Solubility	DMSO: 100 mg/mL (192.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.71 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0385 mL	0.1927 mL	0.3853 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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