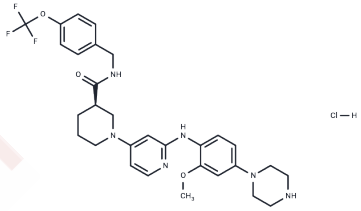
Data Sheet (Cat.No.T67699L)

TargetMol

ALK/ROS1 inhibitor 2e HCL

Chemical Properties



CAS No. :

Formula: C30H36ClF3N6O3

Molecular Weight: 621.09

Storage: Keep away from moisture
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	ALK/ROS1 inhibitor 2e HCL possesses anti-apoptotic, anti-proliferative and anti-tumour activities.
Targets(IC50)	Apoptosis
In vitro	(R)-1-(2-((2-methoxy-4-(piperazin-1-yl)phenyl)amino)pyridin-4-yl)-N-(4-(trifluoromethoxy)benzyl)piperidine-3-carboxamide (2e) showed impressive enzyme activity against clinically Crizotinib-resistant ALKL1196M with an IC50 value of 41.3nM.[1] 2e also showed potent inhibitory activity in about 6-fold superior to Crizotinib (IC50: 104.7nM vs. 643.5nM) in Ba/F3 cell line harboring ROS1G2032R.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (80.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6101 mL	8.0504 mL	16.1007 mL
5 mM	0.322 mL	1.6101 mL	3.2201 mL
10 mM	0.161 mL	0.805 mL	1.6101 mL
50 mM	0.0322 mL	0.161 mL	0.322 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

Liu S, et al. Design, synthesis and biological evaluations of 2-amino-4-(1-piperidine) pyridine derivatives as novel anti crizotinib-resistant ALK/ROS1 dual inhibitors. European Journal of Medicinal Chemistry, 2019, 179: 358-375.

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