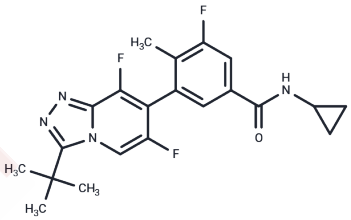
Data Sheet (Cat.No.T10277)

TargetMol

AL 8697

Chemical Properties



CAS No. : 1057394-06-5

Formula: C21H21F3N4O

Molecular Weight: 402.41

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	AL 8697 is a selective p38α MAPK inhibitor (IC50 = 6 nM) with 14-fold selectivity over p38β (IC50 = 82 nM) and 300-fold selectivity over a panel of 91 kinases. AL 8697 has anti-inflammatory activity.
Targets(IC50)	Autophagy,p38 MAPK
In vivo	In male Wistar rats, AL 8697 (1, 3, 10, 30 mg/kg; p.o.) decreases the oedema in right and left paws in a dose-dependent manner thereby causing a larger improvement in the contralateral un-injected paw[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (236.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.2 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	2.485 mL	12.4251 mL	24.8503 mL
5 mM	0.497 mL	2.485 mL	4.9701 mL
10 mM	0.2485 mL	1.2425 mL	2.485 mL
50 mM	0.0497 mL	0.2485 mL	0.497 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

Balagué C, et al. Profiling of dihydroorotate dehydrogenase, p38 and JAK inhibitors in the rat adjuvant-induced arthritis model: a translational study. Br J Pharmacol. 2012 Jun;166(4):1320-32.