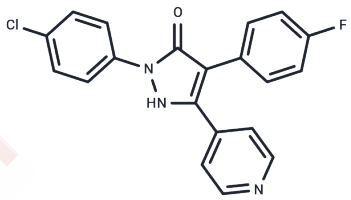
Data Sheet (Cat.No.T36010)

TargetMol

p38 MAPK Inhibitor

Chemical Properties



CAS No. : 219138-24-6

Formula: C20H13ClFN3O

Molecular Weight: 365.79

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	p38 MAPK inhibitor is a potent inhibitor of p38 MAP kinase (IC50 = 35 nM). It inhibits senescence induced by the oncogene RAS.
Targets(IC50)	p38 MAPK

Solubility Information

Solubility	Ethanol: 0.3 mg/mL (0.82 mM),Sonication is recommended. DMF: 5 mg/mL (13.67 mM),Sonication is recommended. DMSO: 10 mg/mL (27.34 mM),Sonication is recommended. DMSO:PBS(pH7.2) (1:1): 0.5 mg/mL (1.37 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: 1 mg/mL (2.73 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	2.7338 mL	13.669 mL	27.3381 mL
5 mM	0.5468 mL	2.7338 mL	5.4676 mL
10 mM	0.2734 mL	1.3669 mL	2.7338 mL
50 mM	0.0547 mL	0.2734 mL	0.5468 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

S E de Laszlo, et al. Pyrroles and other heterocycles as inhibitors of p38 kinase. Bioorg Med Chem Lett. 1998 Oct 6;8 (19):2689-94.