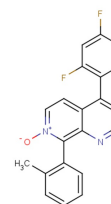


p38 MAPK-IN-1

Chemical Properties

CAS No.:	1006378-90-0
Formula:	C ₂₁ H ₁₅ F ₂ N ₂ O
Molecular Weight:	349.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	p38 MAPK-IN-1 displays sustained levels, low clearance, and good bioavailability. p38 MAPK-IN-1 is a novel effective and selective inhibitor of p38 MAPK (IC ₅₀ : 68 nM).
Targets(IC ₅₀)	p38 MAPK: 68 nM
In vivo	p38 MAPK-IN-1 dose-dependently inhibits TNF α production (ED ₅₀ : 0.5 mg/kg). p38 MAPK-IN-1 (1 mg/kg for iv and 10 mg/kg for p.o.) has a t _{1/2} of 7.4 hours and CL of 2.7 mL/min/kg for iv, and a C _{max} of 5.3 μ M for p.o. in male wistar rats[1].

Solubility Information

Solubility	DMSO: 8.33 mg/mL (23.84 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.862 mL	14.312 mL	28.625 mL
5 mM	0.572 mL	2.862 mL	5.725 mL
10 mM	0.286 mL	1.431 mL	2.862 mL
50 mM	0.057 mL	0.286 mL	0.572 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Lumeras W, et al. 1,7-Naphthyridine 1-oxides as novel potent and selective inhibitors of p38 mitogen activated protein kinase. J Med Chem. 2011 Nov 24;54(22):7899-910.

Inhibitors · Natural Compounds · Compound Libraries

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