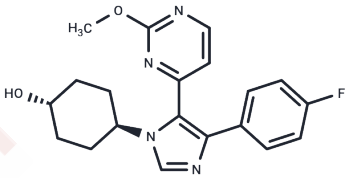
Data Sheet (Cat.No.T6976)

TargetMol

SB 239063

Chemical Properties



CAS No. : 193551-21-2

Formula: C20H21FN4O2

Molecular Weight: 368.4

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SB 239063 (SB239063) is a potent and selective p38 MAPKα/β inhibitor with IC50 of 44 nM, showing no activity against the γ- and δ-kinase isoforms.
Targets(IC50)	Autophagy,p38 MAPK
In vitro	SB 239063 potently inhibits IL-1 and TNF-α production in LPS-stimulated human peripheral blood monocytes with IC50 of 120 and 350 nM, respectively. [1] In oxygen-glucose-deprived hippocampal slice cultures, SB239063 strikingly reduces the levels of the pro-inflammatory cytokine IL-1beta, causes cell death after oxygen-glucose deprivation and significantly diminishes microglia activation. [2] In human corneal endothelial cell, SB 239063 inhibits TGF-β(2) and FGF-2-induced cell migration. [4]
In vivo	In both guinea pigs and mice, SB 239063 (10 mg/kg, p.o.) reduces antigen-induced airway eosinophilia. [1] In air- and ozone-exposed C57/BL6 and MKP-1(-/-) mice, SB239063 inhibits bronchial contraction. [3]

Solubility Information

Solubility	DMSO: 3.7 mg/mL (10 mM),Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7144 mL	13.5722 mL	27.1444 mL
5 mM	0.5429 mL	2.7144 mL	5.4289 mL
10 mM	0.2714 mL	1.3572 mL	2.7144 mL
50 mM	0.0543 mL	0.2714 mL	0.5429 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.

Reference

Underwood DC, et al. J Pharmacol Exp Ther. 2000, 293(1), 281-288.
Strassburger M, et al. Eur J Pharmacol. 2008, 592(1-3), 55-61.
Li F, et al. Eur Respir J. 2011, 37(4), 933-942.
Joko T, et al. Exp Eye Res. 2013, 108, 23-32.

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