Data Sheet (Cat.No.T24816)



SP-100030

Chemical Propert	ties	
CAS No. :	154563-54-9	
Formula:	C14H5ClF9N3O	
Molecular Weight:	437.65	F F NH
Appearance:	no data available	F. F.
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	F F F

Biological Description

SP-100030 is a dual inhibitor of NF-κB and activator protein-1 (AP-1), demonstrating potent inhibition with IC50 values of 50 nM for both. It effectively reduces the production of IL-2, IL-8, and TNF-alpha in Jurkat and other T cell lines. Additionally, SP-100030 has been shown to decrease the severity of murine collagen-induced arthritis (CIA).
NF-ĸB
 SP-100030 blocks the production of IL-2 and IL-8 in Jurkat T-cells at the same concentrations as seen in the luciferase assay (IC50≈30 nM)[1]. ELISA and RT-PCR confirmed that IL-2, IL-8, and TNF-alpha production by activated Jurkat and other T cell lines were inhibited by SP100030[2].
SP100030 (10 mg/kg/day; i.p.; day 21 to day 34) significantly decreased arthritis severity[2].

Solubility Information	er	
Solubility	DMSO: 45 mg/mL (102.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)	X 3

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2849 mL	11.4247 mL	22.8493 mL
5 mM	0.457 mL	2.2849 mL	4.5699 mL
10 mM	0.2285 mL	1.1425 mL	2.2849 mL
50 mM 📀	0.0457 mL	0.2285 mL	0.457 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

Sullivan RW, et al. 2-Chloro-4-(trifluoromethyl)pyrimidine-5-N-(3',5'- bis(trifluoromethyl)phenyl)-carboxamide: a potent inhibitor of NF-kappa B- and AP-1-mediated gene expression identified using solution-phase

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