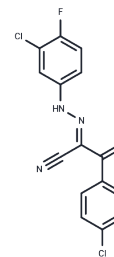


SC99

Chemical Properties

CAS No. :	882290-02-0
Formula:	C ₁₅ H ₈ Cl ₂ FN ₃ O
Molecular Weight:	336.15
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	SC99 is a selective inhibitor of JAK2-STAT3 activation. SC99 downregulates the expression of STAT3-modulated genes. SC99 inhibits platelet activation, aggregation and displays potent anti-myeloma, anti-thrombotic activities
Targets(IC50)	Apoptosis, STAT, JAK
In vitro	SC99 inhibited the phosphorylation of JAK2 and STAT3 in human platelets but had no effects on the phosphorylation of AKT, p65 or Src, all of which are involved in platelet activation. SC99 inhibited human platelet aggregation induced by collagen and thrombin in a dose-dependent manner. SC99 inhibited thrombin-induced P-selectin expression and fibrinogen binding to single platelets. Moreover, SC99 inhibited platelet spreading on fibrinogen and clot retraction mediated by outside-in signaling. SC99 inhibited platelet aggregation in mice but it did not significantly prolong the bleeding time. SC99 inhibited platelet activation and aggregation as a STAT3 inhibitor. This agent can be developed as a promising treatment for thrombotic disorders.

Solubility Information

Solubility	DMSO: 82 mg/mL (243.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9749 mL	14.8743 mL	29.7486 mL
5 mM	0.595 mL	2.9749 mL	5.9497 mL
10 mM	0.2975 mL	1.4874 mL	2.9749 mL
50 mM	0.0595 mL	0.2975 mL	0.595 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

Zhuan Xu, et al. A novel STAT3 inhibitor negatively modulates platelet activation and aggregation. *Acta Pharmacol Sin.* 2017 May;38(5):651-659.

Zubin Zhang, et al. A novel small molecule agent displays potent anti-myeloma activity by inhibiting the JAK2-STAT3 signaling pathway. *Oncotarget.* 2016 Feb 23;7(8):9296-308.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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