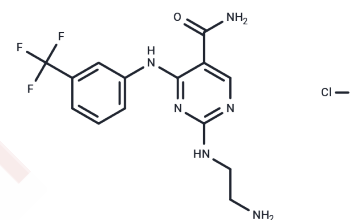


Syk Inhibitor II hydrochloride

Chemical Properties

CAS No. :	2490508-82-0
Formula:	C ₁₄ H ₁₆ ClF ₃ N ₆ O
Molecular Weight:	376.77
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	The impact of spleen tyrosine kinase (Syk) signaling might be prominent in lupus because (i) Syk is a shared downstream signaling molecule among circulating immune complex, LPS, and (1→3)-β-D-glucan (BG), and (ii) all of these factors are detectable in the serum of Fc gamma receptor IIb-deficient (FcγRIIb-/-) mice with sepsis. Syk inhibition downregulated several inflammatory pathways in FcγRIIb-/- macrophages activated with BG + LPS suggesting the potential anti-inflammatory impact of Syk inhibitors in lupus. Indeed, administration of a Syk inhibitor prior to cecal ligation and puncture (CLP) sepsis in FcγRIIb-/- mice reduced baseline lupus-induced proinflammatory cytokines and attenuated sepsis severity as evaluated by mortality, organ injury, serum LPS, and post-sepsis serum cytokines.
Targets(IC50)	Others,5-HT Receptor,Syk

Solubility Information

Solubility	DMSO: 55 mg/mL (145.98 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	2.6541 mL	13.2707 mL	26.5414 mL
5 mM	0.5308 mL	2.6541 mL	5.3083 mL
10 mM	0.2654 mL	1.3271 mL	2.6541 mL
50 mM	0.0531 mL	0.2654 mL	0.5308 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

Issara-Amphorn et al. Syk Inhibitor Attenuates Polymicrobial Sepsis in FcgRIIb-Deficient Lupus Mouse Model, the Impact of Lupus Characteristics in Sepsis. J Innate Immun. 2020;12(6):461-479.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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