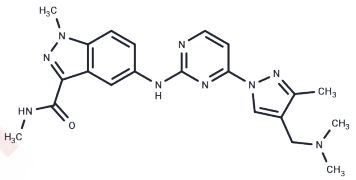
Data Sheet (Cat.No.T37077)

TargetMol

Syk-IN-4

Chemical Properties



CAS No. : 2932264-95-2

Formula: C21H25N9O

Molecular Weight: 419.48

Storage: Store at low temperature
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	Syk-IN-4 is a potent, selective, and oral Syk inhibitor. It blocks immune receptor signaling, used for rheumatoid arthritis and autoimmune disease research.
Targets(IC50)	Syk
In vitro	Syk-IN-4 Exhibited hERG inhibition (IC50=3.0 μM). Blocked proliferation of SUDHL-4 lymphoma cells (GI50=0.24 μM) and T cells[1].
In vivo	Oral bioavailability of Syk-IN-4 is 60% in rats (1 mg/kg p.o.). Showed high clearance (151 mL/min/kg) after i.v. administration[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (119.2 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (5.96 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3839 mL	11.9195 mL	23.839 mL
5 mM	0.4768 mL	2.3839 mL	4.7678 mL
10 mM	0.2384 mL	1.192 mL	2.3839 mL
50 mM	0.0477 mL	0.2384 mL	0.4768 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

Ito F, et al. Structural basis for a Polθ helicase small-molecule inhibitor revealed by cryo-EM. Nat Commun. 2024 Aug 14;15(1):7003.