

Syk-IN-4

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: no data available

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

Biological Description

Description	Syk-IN-4 is a potent, selective, and orally bioavailable inhibitor of SYK, demonstrating an IC ₅₀ of 0.31 nM. It targets SYK, which has been identified as a potential therapeutic target for autoimmunity and hematological cancers[1].
In vitro	Syk-IN-4 is a potent inhibitor of hERG with an IC ₅₀ of 3.0 μM[1].Syk-IN-4 inhibits SUDHL-4 and T cell proliferation with GI ₅₀ s of 0.24 and 2.6 μM, respectively[1].
In vivo	Syk-IN-4 demonstrates moderate oral bioavailability (60%) when administered orally (1 mg/kg) in male Hans Wistar rats[1], while showing high plasma clearance (151 mL/min/kg) and large volume of distribution (1.0 L/kg respectively) upon intravenous administration (0.5 mg/kg) in the same animal model[1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (148.99 mM),Sonication is recommended. $\leq 1\text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Reference

Neil P Grimster, et al. Optimization of a Series of Potent, Selective and Orally Bioavailable SYK Inhibitors. Bioorg Med Chem Lett. 2020 Jul 24;127433.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481