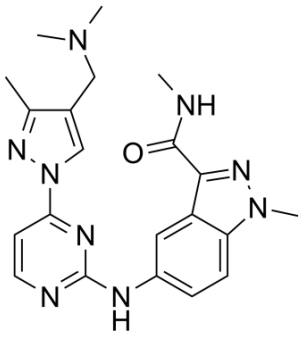
Syk-IN-4

Cat. No.:	HY-131341
Molecular Formula:	$C_{21}H_{25}N_9O$
Molecular Weight:	419.48
Target:	Syk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	Syk-IN-4 is a potent, selective and orally bioavailable **SYK** inhibitor with an **IC_{50}** of 0.31 nM. SYK has emerged as a potential target for autoimmunity and hematological cancers[1].
IC_{50} & Target	IC50: 0.31 nM (SYK)[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 exhibits moderate oral bioavailability (60%) following oral administration (1 mg/kg) in male Hans Wistar rats [1]. Syk-IN-4 exhibits high plasma clearance (151 mL/min/kg) combined with large volumes of distribution (1.0 L/kg respectively) following i.v. administration (0.5 mg/kg) in male Hans Wistar rats[1].

REFERENCES

[1]. 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.

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