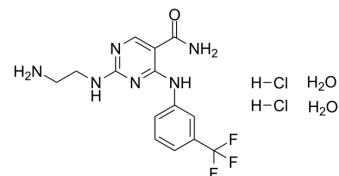


Syk Inhibitor II dihydrochloride dihydrate

Cat. No.:	HY-112390B
CAS No.:	1965323-05-0
Molecular Formula:	C ₁₄ H ₂₁ Cl ₂ F ₃ N ₆ O ₃
Molecular Weight:	449.26
Target:	Syk; 5-HT Receptor
Pathway:	Protein Tyrosine Kinase/RTK; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Syk Inhibitor II dihydrochloride dihydrate is a potent, high selective and ATP-competitive Syk inhibitor with an IC ₅₀ of 41 nM. Syk Inhibitor II dihydrochloride dihydrate inhibits 5-HT release from RBL-cells with an IC ₅₀ of 460 nM. Syk Inhibitor II dihydrochloride dihydrate shows less potent against other kinases and has anti-allergic effect ^[1] .			
IC₅₀ & Target	Syk 41 nM (IC ₅₀)	serotonin 460 nM (IC ₅₀)	PKCε 5.1 μM (IC ₅₀)	PKCβ2 11 μM (IC ₅₀)
	ZAP-70 11.2 μM (IC ₅₀)	Btk 15.5 μM (IC ₅₀)	Itk 22.6 μM (IC ₅₀)	
In Vitro	Syk Inhibitor II (compound 9a) dihydrochloride dihydrate shows less potent against PKCε, PKCβ2, ZAP-70, Btk, and Itk with IC ₅₀ values of 5.1 μM, 11 μM, 11.2 μM, 15.5 μM, and 22.6 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Syk Inhibitor II (Compound 9a; 10-100 mg/kg) dihydrochloride dihydrate is subcutaneously administered to mice 30 min before antigen challenge. Syk Inhibitor II inhibits the anaphylaxis reaction dose-dependently with an ID ₅₀ value of 13.2 mg/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Hiroyuki Hisamichi, et al. Synthetic studies on novel Syk inhibitors. Part 1: Synthesis and structure-activity relationships of pyrimidine-5-carboxamide derivatives. *Bioorg Med Chem.* 2005 Aug 15;13(16):4936-51.

Caution: Product has not been fully validated for medical applications. For research use only.

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