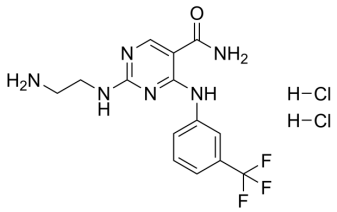
Syk Inhibitor II dihydrochloride

Cat. No.:	HY-112390
CAS No.:	227449-73-2
Molecular Formula:	$C_{14}H_{17}Cl_2F_3N_6O$
Molecular Weight:	413.23
Target:	5-HT Receptor; Syk
Pathway:	GPCR/G Protein; Neuronal Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Syk Inhibitor II dihydrochloride is a potent, high selective and ATP-competitive Syk inhibitor with an IC_{50} of 41 nM. Syk Inhibitor II dihydrochloride inhibits 5-HT release from RBL-cells with an IC_{50} of 460 nM. Syk Inhibitor II dihydrochloride shows less potent against other kinases and has anti-allergic effect[1].
IC_{50} & Target	5-HT Receptor 460 nM (IC_{50})
In Vitro	Syk Inhibitor II (compound 9a) dihydrochloride 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 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.

Animal Model:	ICR mice[1]
Dosage:	10, 30, 100 mg/kg
Administration:	S.c.; 30 min before antigen challenge
Result:	Inhibited the anaphylaxis reaction dose-dependently with an ID_{50} value of 13.2 mg/kg.

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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