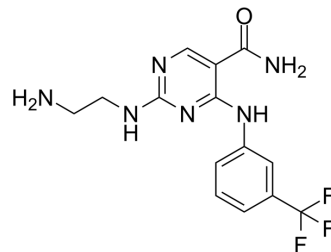


## Syk Inhibitor II

<b>Cat. No.:</b>	HY-112390A		
<b>CAS No.:</b>	726695-51-8		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> F <sub>3</sub> N <sub>6</sub> O		
<b>Molecular Weight:</b>	340.3		
<b>Target:</b>	Syk; 5-HT Receptor		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 5 mg/mL (14.69 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9386 mL	14.6929 mL	29.3858 mL
5 mM	0.5877 mL	2.9386 mL	5.8772 mL
10 mM	0.2939 mL	1.4693 mL	2.9386 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Syk Inhibitor II is a potent, high selective and ATP-competitive Syk inhibitor with an IC<sub>50</sub> of 41 nM. Syk Inhibitor II inhibits 5-HT release from RBL-cells with an IC<sub>50</sub> of 460 nM. Syk Inhibitor II shows less potent against other kinases and has anti-allergic effect<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Syk 41 nM (IC <sub>50</sub> )	serotonin 460 nM (IC <sub>50</sub> )	PKCε 5.1 μM (IC <sub>50</sub> )	PKCβ2 11 μM (IC <sub>50</sub> )
ZAP-70 11.2 μM (IC <sub>50</sub> )	Btk 15.5 μM (IC <sub>50</sub> )	Itk 22.6 μM (IC <sub>50</sub> )	

#### In Vitro

Syk Inhibitor II (compound 9a) shows less potent against PKCε, PKCβ2, ZAP-70, Btk, and Itk with IC<sub>50</sub> values of 5.1 μM, 11 μM, 11.2 μM, 15.5 μM, and 22.6 μM, respectively<sup>[1]</sup>.

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) is subcutaneously administered to mice 30 min before antigen challenge. Syk

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Inhibitor II inhibits the anaphylaxis reaction dose-dependently with an ID<sub>50</sub> value of 13.2 mg/kg<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[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.

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

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