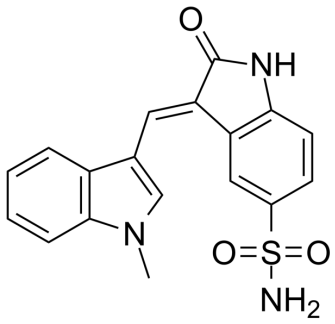
OXSI-2

Cat. No.:	HY-112386
CAS No.:	622387-85-3
Molecular Formula:	$C_{18}H_{15}N_3O_3S$
Molecular Weight:	353.4
Target:	Syk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (28.30 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8297 mL	14.1483 mL	28.2965 mL
	5 mM	0.5659 mL	2.8297 mL	5.6593 mL
	10 mM	0.2830 mL	1.4148 mL	2.8297 mL

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

BIOLOGICAL ACTIVITY

Description

OXSI-2 is a bioavailable, cell-permeable Syk inhibitor with an EC_{50} of 313 nM and an IC_{50} of 14 nM[1][2].

In Vitro

OXSI-2 (2 μM) completely inhibits Convulxin-induced platelet aggregation and shape change. OXSI-2 (2 μM) also completely blocks GPVI-mediated dense granule release. OXSI-2 (100 nM) does not affect the platelet functional responses induced by Convulxin, and modest shape change is still evident at 1 μM[1].

Adaptor protein LAT is a known substrate of Syk Kinase. OXSI-2 completely inhibits LAT Y191 phosphorylation. OXSI-2 inhibits Syk mediated events in platelets[1].

OXSI-2 (2 μM) inhibits inflammasome assembly, caspase-1 activation, IL-1β processing and release, mitochondrial ROS generation, and pyroptotic cell death[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Aspirin-treated, washed human platelets
Concentration:	2 μM

Incubation Time:	
Result:	Completely inhibited Syk-mediated LAT Y191 phosphorylation.

REFERENCES

[1]. Kamala Bhavaraju, et al. Evaluation of [3-(1-methyl-1H-indol-3-yl-methylene)-2-oxo-2, 3-dihydro-1H-indole-5-sulfonamide] (OXSI-2), as a Syk-selective inhibitor in platelets. Eur J Pharmacol. 2008 Feb 12;580(3):285-90.

[2]. Jordan R Yaron, et al. The oxindole Syk inhibitor OXSI-2 blocks nigericin-induced inflammasome signaling and pyroptosis independent of potassium efflux. Biochem Biophys Res Commun. 2016 Apr 8;472(3):545-50.

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

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