PRODUCT INFORMATION



Syk Inhibitor

Item No. 14829

622387-85-3	0
2,3-dihydro-3-[(1-methyl-1H-	\parallel $/ \vee$
indol-3-yl)methylene]-2-oxo-1H-	$H_2N = S = \langle \rangle \rangle = N = H$
indole-5-sulfonamide	
OXSI 2, Spleen Tyrosine Kinase	
C ₁₈ H ₁₅ N ₃ O ₃ S	
353.4	
≥95% (mixture of isomers)	
λ _{max} : 223, 279, 428 nm	
A crystalline solid	N
-20°C	
≥4 years	
	622387-85-3 2,3-dihydro-3-[(1-methyl-1H- indol-3-yl)methylene]-2-oxo-1H- indole-5-sulfonamide OXSI 2, Spleen Tyrosine Kinase $C_{18}H_{15}N_3O_3S$ 353.4 ≥95% (mixture of isomers) λ_{max} : 223, 279, 428 nm A crystalline solid -20°C ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Syk Inhibitor is supplied as a crystalline solid. A stock solution may be made by dissolving the Syk inhibitor in the solvent of choice, which should be purged with an inert gas. Syk Inhibitor is soluble in the organic solvent DMSO at a concentration of approximately 10 mg/ml.

Description

Syk is a non-receptor tyrosine kinase that upon phosphorylation binds to immunoreceptor tyrosine-based activation motifs (ITAMs) of FcRy chains and mediates downstream signaling related to platelet function and inflammation.¹ Syk inhibitor is an oxindole compound that potently blocks Syk activity with an IC_{50} value of 14 nM and inhibits FccRI-mediated rat RBL-2H3 basophil cell degranulation (EC₅₀ = 313 nM).² At 2μ M, this compound completely abolishes convulxin-induced platelet aggregation and shape change.³

References

- 1. Singh, R., Masuda, E.S., and Payan, D.G. Discovery and development of spleen tyrosine kinase (SYK) inhibitors. J. Med. Chem. 55(8), 3614-3643 (2012).
- 2. Lai, J.Y.Q., Cox, P.J., Patel, R., et al. Potent small molecule inhibitors of spleen tyrosine kinase (Syk). Bioorg. Med. Chem. Lett. 13(18), 3111-3114 (2003).
- 3. Bhavaraju, K., Kim, S., Daniel, J.L., 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. 580(3), 285-290 (2008).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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