Syk Inhibitor
Item No. 14829

CAS Registry No.: 622387-85-3
Formal Name: 2,3-dihydro-3-[(1-methyl-1H-indol-3-yl)methylene]-2-oxo-1H-indole-5-sulfonamide
Synonyms: OXSI 2, Spleen Tyrosine Kinase
MF: C_{18}H_{15}N_{3}O_{3}S
FW: 353.4
Purity: ≥95% (mixture of isomers)
UV/Vis.: λ_{max}: 223, 279, 428 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥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 FcγR chains and mediates downstream signaling related to platelet function and inflammation. Syk inhibitor is an oxindole compound that potently blocks Syk activity with an IC_{50} value of 14 nM and inhibits FcεRI-mediated rat RBL-2H3 basophil cell degranulation (EC_{50} = 313 nM). At 2 μM, this compound completely abolishes convulxin-induced platelet aggregation and shape change.

References