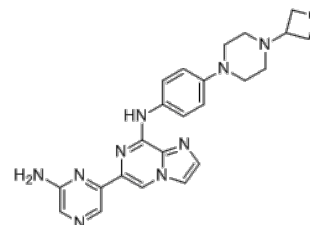


Product Name : Lanraplenib
Cat. No. : PC-61380
CAS No. : 1800046-95-0
Molecular Formula : C₂₃H₂₅N₉O
Molecular Weight : 443.515
Target : Syk
Solubility : 10 mM in DMSO



1. Peter Blomgren, et al. *ACS Med Chem Lett.*

Biological Activity

Lanraplenib (GS-9876, GS9876) is a potent, selective, orally active **Syk** kinase inhibitor with IC₅₀ of 9.5 nM.

Lanraplenib (GS-9876) displays high selectivity on a panel of 395 nonmutant kinases, with exception JAK2 to be the most potently inhibited off-target kinase with IC₅₀ of 120 nM.

Lanraplenib (GS-9876) is a potent inhibitor (EC₅₀ 24-51 nM) of signaling downstream of the B-cell receptor and completely abrogates the expression of the cell-surface activation markers CD86 and CD69 with EC₅₀ 112-164 nM.

Lanraplenib (GS-9876) inhibits proliferation of B-cells following BCR stimulation with IC₅₀ of 108 nM, also reduces immune-complex (IC) stimulated release of proinflammatory cytokines from human macrophages with TNF α and IL-1 β inhibited more potently than IL-6.

Lanraplenib (GS-9876) suppressed disease progression and improves survival in the NZB/W F1 murine lupus model.

References

- 2020 Feb 12;11(4):506-513.
- Pohlmeyer CW, et al. *BMC Rheumatol.* 2021 Mar 30;5(1):15.

