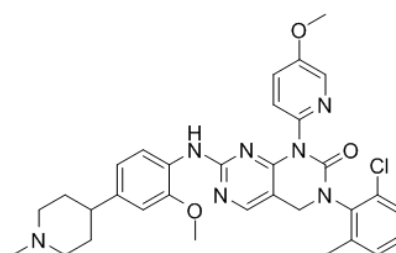


Product Name : YKL-05-099
Cat. No. : PC-42327
CAS No. : 1936529-65-5
Molecular Formula : C₃₂H₃₄ClN₇O₃
Molecular Weight : 600.11046
Target : Salt Inducible Kinase (SIK)
Solubility : DMSO: ≥ 103.33 mg/mL; PBS: 100 mM



Biological Activity

YKL-05-099 (YKL 05-099) is a novel potent, selective **pan-SIK** inhibitor with IC₅₀ of 10, 40 and 30 nM for SIK1, 2 and 3, respectively. YKL-05-099 displays increased SIK selectivity and enhanced pharmacokinetic properties compared with HG-9-91-01. YKL-05-099 reduces LPS stimulated phosphorylation of HDAC5 at the SIK-specific phosphorylation site Ser259, increases expression of the CREB target genes IL10 and Nurr77, suppresses production of TNFα, IL-6 and IL-12p40 in BMDMs. YKL-05-099 is a useful probe to investigate SIK function in vivo.

References

Sundberg TB, et al. *ACS Chem Biol*. 2016 Aug 19;11(8):2105-11.
 Wein MN, et al. *Nat Commun*. 2016 Oct 19;7:13176.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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