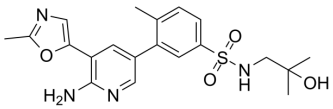
PI3Kγ inhibitor 4

Cat. No.:	HY-132299
CAS No.:	1821038-80-5
Molecular Formula:	$C_{20}H_{24}N_4O_4S$
Molecular Weight:	416.49
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3Kγ inhibitor 4 is a potent, selective and orally active inhibitor of PI3Kγ, with an IC_{50} of 40 nM. PI3Kγ inhibitor 4 shows ~7, 43, and 18-fold selectivity for PI3Kγ over the α, β, and δ isoforms, respectively. PI3Kγ inhibitor 4 can be used for the research of airway inflammation[1].	
IC_{50} & Target	PI3Kγ 40 nM (IC_{50})	PI3Kα 300 nM (IC_{50})
In Vitro	PI3Kγ inhibitor 4 inhibits PI3Kγ and PI3Kα in U937 cells, with IC_{50}s of 120 nM and 6250 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	PI3Kγ inhibitor 4 (10-20 mg/kg; a single p.o.) dose dependently inhibits the amplitude of the enhanced pause (ΔPenh) response to ovalbumin in a model of airway inflammation[1]. PI3Kγ inhibitor 4 (a single p.o.) exhibits high oral bioavailability (72, 94 and 122%) and C_{max} (1.53, 12.2 and 25.2 μM) following oral administration (10, 100 and 300 mg/kg) in rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bellenie BR, et, al. Discovery and Toxicological Profiling of Aminopyridines as Orally Bioavailable Selective Inhibitors of PI3-Kinase γ. J Med Chem. 2021 Aug 26;64(16):12304-12321.

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