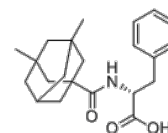


Product Name : MS47134
Cat. No. : PC-38069
CAS No. :
Molecular Formula : C₂₂H₂₉NO₃
Molecular Weight : 355.478
Target :
Solubility : 10 mM in DMSO



Biological Activity

MS47134 is a potent, selective **MRGPRX4** agonist with EC₅₀ of 149 nM.

MS47134 displays 47-fold improved selectivity for MRGPRX4 over the Kir6.2/SUR1 potassium channel.

Off-target profiling of MS47134 at 320 GPCRs showed activity only at MRGPRX4 and MRG-PRX1 with no appreciable agonist or antagonist activity at the other 318 tested GPCRs.

MS47134 binds to MRGPRX4 on the extracellular side far from the canonical toggle switch W6.48 in 5-HT_{2A}R.

A Y130ICL2A mutation reduced the agonist potency of MS47134 while the Y137ICL2A mutation in MRG-PRX2 has little effect.

References

Can Cao, et al. *Nature*. 2021 Dec;600(7887):170-175.

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

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