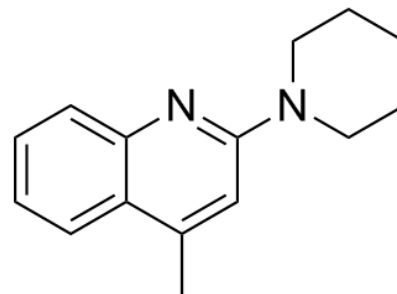


Product Name : ML204 hydrochloride
Cat. No. : PC-43289
CAS No. : 2070015-10-8
Molecular Formula : C₁₅H₁₉ClN₂
Molecular Weight : 262.7778
Target : TRP Channel
Solubility : H₂O: ≥ 30 mg/mL



H-Cl

Biological Activity

ML204 hydrochloride is a potent, selective antagonist of **TRPC4** and **TRPC5** channels, inhibits TRPC4 β -mediated intracellular Ca(2+) rise with IC₅₀ of 0.96 μ M, exhibits 19-fold selectivity against TRPC6 channel.

ML204 blocks TRPC4 β currents activated through either μ -opioid receptor stimulation (50 nM DAMGO, IC₅₀=3.55 μ M) or intracellular dialysis of GTP γ S (IC₅₀=2.85 μ M).

ML204 shows no appreciable block by 10-20 μ M for TRPV1, TRPV3, TRPA1, and TRPM8, as well as KCNQ2 and Nav Channels. ML204 also inhibits TRPC5 channel currents activated through co-stimulation of Gi/o and Gq/11 signaling by μ -opioid and M3-like muscarinic receptors.

References

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Carson C, et al. *PLoS One*. 2015 Jun 22;10(6):e0127498.
Alawi KM, et al. *Ann Rheum Dis*. 2017 Jan;76(1):252-260.

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

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