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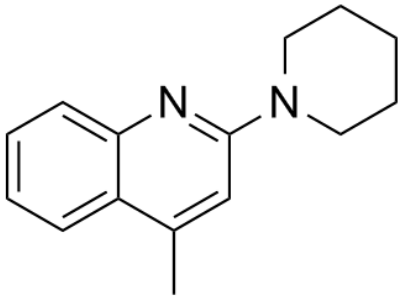
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	ML204
Cat. No.	:	PC-43288
CAS No.	:	5465-86-1
Molecular Formula	:	$C_{15}H_{18}N_2$
Molecular Weight	:	226.3168
Target	:	TRP Channel
Solubility	:	DMSO: ≥ 37 mg/mL



Biological Activity

ML204 is a potent, selective antagonist of **TRPC4** and **TRPC5** channels, inhibits TRPC4β-mediated intracellular Ca(2+) rise with IC50 of 0.96 uM, exhibits 19-fold selectivity against TRPC6 channel.
ML204 blocks TRPC4β currents activated through either μ-opioid receptor stimulation (50 nm DAMGO, IC50=3.55 uM) or intracellular dialysis of GTPγS (IC50=2.85 uM).
ML204 shows no appreciable block by 10-20 uM 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

Miller M, et al. ***J Biol Chem***. 2011 Sep 23;286(38):33436-46.

Zhang L, et al. ***Neuropharmacology***. 2013 Sep;72:106-15.

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.

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