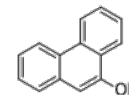


Product Name : 9-phenanthrol
Cat. No. : PC-27188
CAS No. : 484-17-3
Molecular Formula : C₁₄H₁₀O
Molecular Weight : 194.23
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

9-Phenanthrol (9-Hydroxyphenanthrene) is a specific, reversible small molecule TRPM4 inhibitor with IC₅₀ of 17 uM, is ineffective on the related channel TRPM5.

9-phenanthrol blocks native TRPM4 currents in freshly isolated smooth muscle cells in a concentration-dependent manner (IC₅₀=10.6 uM).

9-Phenanthrol (30 uM) has no effect on maximum evoked currents in human embryonic kidney cells expressing recombinant TRPC3 or TRPC6 channels.

References

Simard C, et al. Br J Pharmacol. 2012 Apr;165(7):2354-64.

Grand T, et al. Br J Pharmacol. 2008 Apr;153(8):1697-705.

Gonzales AL, Am J Physiol Cell Physiol. 2010 Aug;299(2):C279-88.

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

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