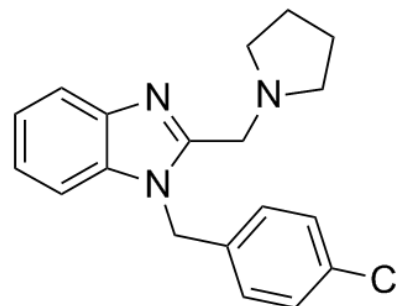


Product Name : Clemizole
Cat. No. : PC-45789
CAS No. : 442-52-4
Molecular Formula : C₁₉H₂₀ClN₃
Molecular Weight : 325.8352
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

Clemizole is an **H₁ histamine** receptor antagonist that substantially inhibits HCV replication by suppression of NS4B's RNA binding (IC₅₀=24 nM) with little toxicity for the host cells.

Clemizole also selectively and efficiently blocks **TRPC5** currents and Ca(2+) entry with IC₅₀ of 1-1.3 μM, 6-fold selectivity over TRPC4β (IC₅₀ = 6.4 μM), and almost 10-fold selectivity over TRPC3 (IC₅₀ =9.1 μM) and TRPC6 (IC₅₀=11.3 μM), only very weakly affects TRPM3, TRPM8 and TRPV1, V2, V3, and V4 channels.

References

Richter JM, et al. Mol Pharmacol. 2014 Nov;86(5):514-21.

Einav S, et al. Nat Biotechnol. 2008 Sep;26(9):1019-27.

Einav S, et al. J Infect Dis. 2010 Jul 1;202(1):65-74.

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

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