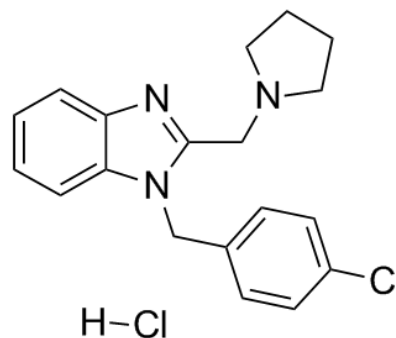


Product Name : Clemizole hydrochloride
Cat. No. : PC-45790
CAS No. : 1163-36-6
Molecular Formula : C₁₉H₂₁Cl₂N₃
Molecular Weight : 362.2961
Target : TRP Channel
Solubility : DMSO: ≥ 3.6 mg/mL



Biological Activity

Clemizole hydrochloride 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 hydrochloride 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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