

Sigma-1 receptor antagonist 5

Chemical Properties

CAS No. :

Formula: C₂₆H₂₇N₃O

Molecular Weight: 397.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Sigma-1 receptor antagonist 5 (compound 12), a 4-pyridylpiperidine derivative, exhibits analgesic properties through its antagonistic action on sigma receptors (K _i =4.5 nM (σ ₁ R), 10 nM (σ ₂ R)) and the histamine H ₃ receptor (hH ₃ R, K _i =7.7 nM, IC ₅₀ =215 nM). It effectively attenuates Capsaicin-induced nociception and demonstrates significant antinociceptive effects in both nociceptive and neuropathic pain models [1].
Targets(IC ₅₀)	Histamine Receptor, Sigma receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5157 mL	12.5783 mL	25.1566 mL
5 mM	0.5031 mL	2.5157 mL	5.0313 mL
10 mM	0.2516 mL	1.2578 mL	2.5157 mL
50 mM	0.0503 mL	0.2516 mL	0.5031 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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