

## Sigma-1 receptor antagonist 4

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O

Molecular Weight: 334.45

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 4 (Compound 32) is a potent $\sigma$ 1R antagonist that significantly enhances morphine's analgesic effects and reverses morphine-induced analgesic tolerance, potentially preventing morphine tolerance [1].
Targets(IC50)	Sigma receptor
In vivo	Sigma-1 receptor antagonist 4 (0-60 mg/kg; intraperitoneal injection; single dose) enhanced the analgesic effect induced by morphine in a dose-dependent manner within a range of 40 mg/kg [1]. At 30 mg/kg (intraperitoneal injection; single dose), Sigma-1 receptor antagonist 4 potentiated the antinociceptive effect by augmenting the MOR agonist action of morphine [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.990 mL	14.9499 mL	29.8998 mL
5 mM	0.598 mL	2.990 mL	5.980 mL
10 mM	0.299 mL	1.495 mL	2.990 mL
50 mM	0.0598 mL	0.299 mL	0.598 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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