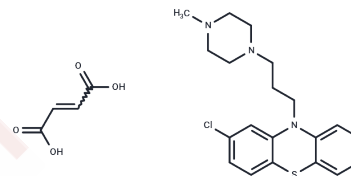


Prochlorperazine Maleate

Chemical Properties

CAS No. :	84-02-6
Formula:	C ₂₈ H ₃₂ ClN ₃ O ₈ S
Molecular Weight:	606.09
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Prochlorperazine Maleate (Capazine) is a phenothiazine antipsychotic used principally in the treatment of NAUSEA; VOMITING; and VERTIGO. It is more likely than CHLORPROMAZINE to cause EXTRAPYRAMIDAL DISORDERS.
Targets(IC50)	Dopamine Receptor
In vitro	Prochlorperazine down-regulates cyclin E2 and reduces cell proliferation in MCF-7 cells that are resistant to tamoxifen. It has the potential to impact on estrogen receptor (ER) function and alter response to endocrine therapy[2].
In vivo	Prochlorperazine is showed to be able to induce antinociception in mice. prochlorperazine-treated mice show a complete integrity of motor co-ordination on the rota-rod test, normal spontaneous motility, as well as exploratory behaviour as revealed by the hole-board test. The antinociceptive effect of prochlorperazine appears to be due to the antagonism of D2 receptors since the increase of the pain threshold induced by the investigated compound is prevented by pretreatment with the D2 agonist quinpirole[1].
Cell Research	Cells are treated 5 μ M of prochlorperazine for 5 days and cell proliferation is measured by methylene blue staining or for 2 days and cyclin E2 mRNA levels are measured by qPCR.(Only for Reference)

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 2 mg/mL (3.3 mM),Heating is recommended. DMSO: 45 mg/mL (74.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6499 mL	8.2496 mL	16.4992 mL
5 mM	0.330 mL	1.6499 mL	3.2998 mL
10 mM	0.165 mL	0.825 mL	1.6499 mL
50 mM	0.033 mL	0.165 mL	0.330 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.

Reference

Ghelardini C, et al. Pharmacol Res. 20014, 50(3):351-358.

Dong L, Shen S, Chen W, et al. Discovery of Novel Inhibitors Targeting Human O-GlcNAcase: Docking-Based Virtual Screening, Biological Evaluation, Structural Modification, and Molecular Dynamics Simulation. Journal of chemical information and modeling. 2019, 59(10): 4374-4382.

Huang L, et al. PLoS One. 2011, 6(7):e22274.

Dong L, Shen S, Chen W, et al. Discovery of Novel Inhibitors Targeting Human O-GlcNAcase: Docking-Based Virtual Screening, Biological Evaluation, Structural Modification, and Molecular Dynamics Simulation[J]. Journal of chemical information and modeling. 2019, 59(10): 4374-4382.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481