

Protriptyline

Chemical Properties

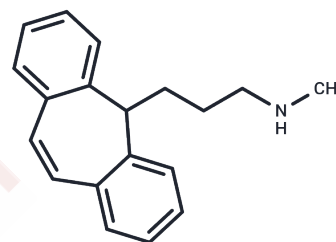
CAS No. : 438-60-8

Formula: C₁₉H₂₁N

Molecular Weight: 263.38

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	Protriptyline is a potent antidepressant agent that inhibits AChE activity with an IC ₅₀ value of 0.06 mM as well as inhibits Aβ Self-Assembly. Protriptyline has the potential to be used for depression and Alzheimer's disease [1] [2] [3].
Targets(IC50)	Beta Amyloid,Others,Cholinesterase (ChE)
In vitro	Protriptyline (0-70 μM; 24 hours; PC3 cells) induces cytotoxicity in PC3 cells, decreasing cell viability in a concentration-dependent manner (50, 60, and 70 μM) [2].
In vivo	Protriptyline (10 mg/kg; i.p.; for 21 days; rat model of AD) ameliorates spatial learning and retention memory in STZ-treated rats [3]. The treatment significantly reduced pTau, Aβ ₄₂ , and BACE-1 levels, neurodegeneration, oxidative stress, and glial activation, while improving the p-ERK/ERK ratio, and enhancing BDNF and CREB levels by reducing NFκB and GFAP expression.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7968 mL	18.984 mL	37.968 mL
5 mM	0.7594 mL	3.7968 mL	7.5936 mL
10 mM	0.3797 mL	1.8984 mL	3.7968 mL
50 mM	0.0759 mL	0.3797 mL	0.7594 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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