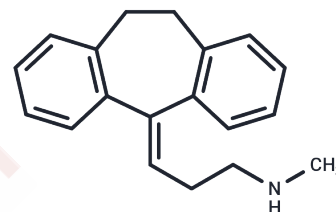


Nortriptyline

Chemical Properties

CAS No. :	72-69-5
Formula:	C19H21N
Molecular Weight:	263.38
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Nortriptyline is an antidepressant compound that enhances corticosteroid sensitivity of blood T-cells in patients with chronic obstructive pulmonary disease (COPD) and may be used for smoking cessation.
Targets(IC50)	Apoptosis,Others,Autophagy,Drug Metabolite
In vitro	In human TCCSUP and mouse MBT-2 bladder cancer cells, Nortriptyline (at concentrations of 6.25 μ M, 12.5 μ M, 25 μ M, 50 μ M, and 100 μ M; treatment durations of 24, 48, or 72 hours) exhibited cytotoxic effects on both TCCSUP and MBT-2 cells[3].
In vivo	In adult male C3H/HeN mice (weighing 25-30 grams, aged 2-3 months) inoculated with MBT-2 cells, Nortriptyline (administered at doses of 10 or 20 mg/kg; via intraperitoneal injection; once daily; for three weeks) was able to suppress tumor growth in mice engrafted with MBT-2 cells[3].

Solubility Information

Solubility	DMSO: 42.08 mg/mL (159.77 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	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.

Reference

Dean L. Amitriptyline Therapy and CYP2D6 and CYP2C19 Genotype. In: Pratt VM, Scott SA, Pirmohamed M, et al., eds. Medical Genetics Summaries. Bethesda (MD): National Center for Biotechnology Information (US); March 23, 2017.

Petrosyan E, et al. Repurposing Autophagy Regulators in Brain Tumors [published online ahead of print, 2022 Feb 18]. *Int J Cancer*. 2022;10.1002/ijc.33965.

Sheau-Yun Yuan, et al. Nortriptyline induces mitochondria and death receptor-mediated apoptosis in bladder cancer cells and inhibits bladder tumor growth in vivo. *Eur J Pharmacol*. 2015 Aug 15:761:309-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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