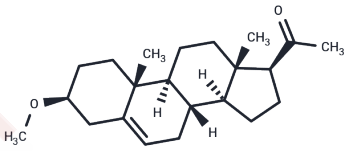
Data Sheet (Cat.No.T9504)

TargetMol

MAP4343

Chemical Properties



CAS No. : 511-26-2

Formula: C22H34O2

Molecular Weight: 330.5

Storage: Store at low temperature
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	Map4343 is a 3-methyl ether derivative of pregnenolone. Map4343 binds to microtubule associated protein 2 (MAP2) in vitro and stimulates tubulin polymerization, resulting in enhanced neurite extension and protection of neurons from neurotoxic agents.
Targets(IC50)	Microtubule Associated

Solubility Information

Solubility	DMSO: 25 mg/mL (75.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0257 mL	15.1286 mL	30.2572 mL
5 mM	0.6051 mL	3.0257 mL	6.0514 mL
10 mM	0.3026 mL	1.5129 mL	3.0257 mL
50 mM	0.0605 mL	0.3026 mL	0.6051 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

Fontaine-Lenoir V, et, al. Microtubule-associated protein 2 (MAP2) is a neurosteroid receptor. Proc Natl Acad Sci U S A. 2006 Mar 21;103(12):4711-6.

Duchossoy Y, et, al. Treatment of experimental spinal cord injury with 3β-methoxy-pregnenolone. Brain Res. 2011 Jul 27;1403:57-66.

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