

DU-14

Chemical Properties

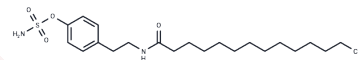
CAS No. : 186303-55-9

Formula: C₂₂H₃₈N₂O₄S

Molecular Weight: 426.61

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	DU-14, a powerful steroid sulfatase inhibitor, has an IC ₅₀ of 55.8 nM and effectively inhibits MCF-7 cell proliferation with an IC ₅₀ of 38.7 nM. It exhibits neuroprotective properties against neurotoxic A β , indicating that by increasing endogenous DHEAS, DU-14 could help alleviate A β -induced issues in spatial memory and synaptic plasticity [1] [2] [3].
Targets(IC ₅₀)	Others
In vitro	DU-14 (0.001-10 μ M, 18 h) inhibits estrone sulfatase activity in MDA-MB-231 cells, with an IC ₅₀ of 350 nM [1].
In vivo	DU-14 (30 mg/kg, administered intraperitoneally, once) inhibits steroid sulfatase activity in brain and liver tissues and enhances the memory-improving effects of DHEAS in rats with scopolamine-induced amnesia [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3441 mL	11.7203 mL	23.4406 mL
5 mM	0.4688 mL	2.3441 mL	4.6881 mL
10 mM	0.2344 mL	1.172 mL	2.3441 mL
50 mM	0.0469 mL	0.2344 mL	0.4688 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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