

Spermidine-D6

Chemical Properties

CAS No. : 2514812-10-1

Formula: C7H13D6N3

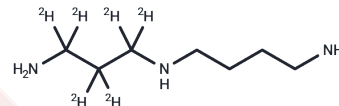
Molecular Weight: 151.28

Storage:

Keep away from direct sunlight, Keep away from moisture, 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	Spermidine-D6 is a deuterated form of Spermidine. Spermidine (T4893) is a natural polyamine present in ribosomes and living tissues, with functions in inflammation reduction, lipid metabolism regulation, and modulation of cell growth and death.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 40 mg/mL (264.41 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	6.6103 mL	33.0513 mL	66.1026 mL
5 mM	1.3221 mL	6.6103 mL	13.2205 mL
10 mM	0.661 mL	3.3051 mL	6.6103 mL
50 mM	0.1322 mL	0.661 mL	1.3221 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

- Elsafadi S, et al. Roe deer uterine fluid metabolome reveals elevated glycolysis, fatty acid breakdown, and spermidine synthesis upon reactivation from diapause†. *Biol Reprod.* 2024 Nov 29;ioae161.
- Fling RR, et al. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) dysregulates hepatic one carbon metabolism during the progression of steatosis to steatohepatitis with fibrosis in mice. *Sci Rep.* 2020 Sep 9;10(1):14831.
- Van den Berg GA, et al. Catabolism of polyamines in the rat. Polyamines and their non-alpha-amino acid metabolites. *Biochim Biophys Acta.* 1984 Nov 28;802(2):175-87.

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