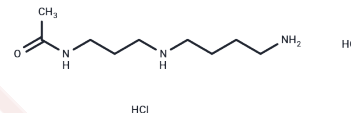


N1-Acetylspermidine hydrochloride

Chemical Properties

CAS No. : 34450-16-3
 Formula: C₉H₂₃Cl₂N₃O
 Molecular Weight: 260.2
 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	N1-Acetylspermidine hydrochloride, an acetyl derivative of spermidine, serves as a substrate for polyamine oxidase and selectively elevates its levels in human colorectal adenocarcinomas.
Targets(IC50)	Apoptosis,Endogenous Metabolite

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (38.43 mM),Sonication is recommended. DMSO: 0.1 mg/mL (0.38 mM),Sonication is recommended. H ₂ O: 242.5 mg/mL (931.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8432 mL	19.216 mL	38.432 mL
5 mM	0.7686 mL	3.8432 mL	7.6864 mL
10 mM	0.3843 mL	1.9216 mL	3.8432 mL
50 mM	0.0769 mL	0.3843 mL	0.7686 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

- Gawandi, V., and Fitzpatrick, P.F. The synthesis of deuterium-labeled spermine, N1-acetylspermine and N1-acetylspermidine. *Journal of Labelled Compounds and Radiopharmaceuticals* 50(7), 666-670 (2007).
- Takao, K., Sugita, Y., and Shirahata, A. Assay of N1-acetylpolyamine oxidase activity with N1,N11-didansylspermine as the substrate by ion-pair reversed phase high performance liquid chromatography. *Biological and Pharmaceutical Bulletin* 33(7), 1089-1094 (2010).
- Royo M, et al. Mechanistic studies of mouse polyamine oxidase with N1,N12-bisethylspermine as a substrate. *Biochemistry*. 2005 May 10;44(18):7079-84.
- Takenoshita S, et al. Selective elevation of the N1-acetylspermidine level in human colorectal adenocarcinomas. *Cancer Res*. 1984 Feb;44(2):845-7.
- Haukanes BI, et al. Action of spermidine, N1-acetylspermidine, and N8-acetylspermidine at apurinic sites in DNA. *Haukanes, B.I., Szajko, K., and Helland, D.E. Action of spermidine, N1-acetylspermidine, and N8-acetylspermidine at apurinic sites in DNA. FEBS Letters* 269(2), 389-393 (1990).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481