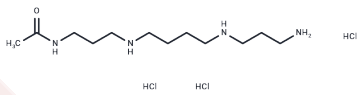
Data Sheet (Cat.No.T36416)

TargetMol

N1-Acetylspermine trihydrochloride

Chemical Properties



CAS No. : 77928-70-2

Formula: C12H31Cl3N4O

Molecular Weight: 353.76

Storage: Keep away from moisture
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-Acetylspermine trihydrochloride is a monoacetylated derivative of spermine, an endogenous polyamine. N1-Acetylspermine trihydrochloride can be used in research on polyamine metabolism, tumor biology, and neurodegenerative diseases.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 17 mg/mL (48.06 mM),Sonication is recommended. H2O: 50 mg/mL (141.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8268 mL	14.1339 mL	28.2678 mL
5 mM	0.5654 mL	2.8268 mL	5.6536 mL
10 mM	0.2827 mL	1.4134 mL	2.8268 mL
50 mM	0.0565 mL	0.2827 mL	0.5654 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

Gutierrez, et al. Mechanisms of spermine- and N1-acetylspermine-induced relaxation on rat uterine smooth muscle in-vitro.Pharmaceutical Sciences, 1997, vol. 3, # 10, p. 513 - 516

Bolkenius, F.N, et al. Acetylderivatives as intermediates in polyamine catabolism. International Journal of Biochemistry 13(3), 287-292 (1981).

Igarashi, K, et al Polyamines: Mysterious modulators of cellular functions. Biochemical and Biophysical Research Communications 271(3), 559-564 (2000).

Aouida, et al. The human carnitine transporter SLC22A16 mediates high affinity uptake of the anticancer polyamine analogue bleomycin-A5. The Journal of Biological Chemisty 285(9), 6275-6284 (2010).