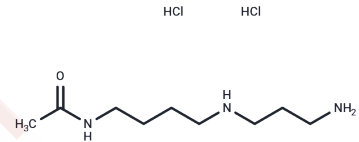


## N8-Acetylspermidine dihydrochloride

## Chemical Properties

CAS No. :	34450-15-2
Formula:	C <sub>9</sub> H <sub>23</sub> Cl <sub>2</sub> N <sub>3</sub> O
Molecular Weight:	260.2
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	N8-Acetylspermidine dihydrochloride, a polyamine, can be produced in mammals through the acetylation of spermidine by spermidine/spermine N1-acetyltransferase (SSAT), followed by subsequent oxidation by [propylamine transferase].
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 128.75 mg/mL (494.81 mM),Sonication is recommended. H <sub>2</sub> O: 50 mg/mL (192.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (15.37 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## 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

Seiler N, et al. The influence of catabolic reactions on polyamine excretion. *Biochem J.* 1985 Jan 1;225(1):219-26.  
Nayak A, et al. N8-Acetylspermidine: A Polyamine Biomarker in Ischemic Cardiomyopathy With Reduced Ejection Fraction. *J Am Heart Assoc.* 2020 Jun 2;9(11):e016055.

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