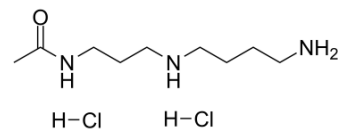


N1-Acetylspermidine hydrochloride

Cat. No.:	HY-113056A		
CAS No.:	34450-16-3		
Molecular Formula:	C ₉ H ₂₃ Cl ₂ N ₃ O		
Molecular Weight:	260.2		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 25 mg/mL (96.08 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.8432 mL	19.2160 mL	38.4320 mL
5 mM	0.7686 mL	3.8432 mL	7.6864 mL
10 mM	0.3843 mL	1.9216 mL	3.8432 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N1-Acetylspermidine hydrochloride is an acetyl derivative of polyamine. N1-acetylspermine is the substrate for the polyamine oxidase (PAO). N1-Acetylspermidine hydrochloride selectively elevates its level in human colorectal adenocarcinomas. N1-acetylspermidine shows cleavage efficiency at apurinic sites in DNA^{[1][2][3]}.

REFERENCES

- [1]. 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.
- [2]. Haukanes BI, et al. Action of spermidine, N1-acetylspermidine, and N8-acetylspermidine at apurinic sites in DNA.
- [3]. Takenoshita S, et al. Selective elevation of the N1-acetylspermidine level in human colorectal adenocarcinomas. *Cancer Res*. 1984 Feb;44(2):845-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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