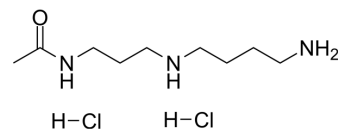


N1-Acetylspermidine hydrochloride

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:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

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

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA