N-Acetylputrescine

Cat. No.:	HY-W342604	
CAS No.:	5699-41-2	
Molecular Formula:	C ₆ H ₁₄ N ₂ O	0
Molecular Weight:	130	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	7.6923 mL	38.4615 mL	76.9231 mL	
		5 mM	1.5385 mL	7.6923 mL	15.3846 mL	
		10 mM	0.7692 mL	3.8462 mL	7.6923 mL	

BIOLOGICAL ACTIVITY			
Description	N-Acetylputrescine (NAP) is an endogenous metabolite widely present in animals and plants. N-Acetylputrescine can be used as a biomarker for lung squamous cell carcinoma (SCCL) and Parkinson's disease (PD) for disease diagnosis ^{[1][2][3]} .		
In Vitro	N-Acetylputrescine forms in human lymphocytes in the presence of [¹⁴ C] putrescine ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Liu R, et al. Plasma N-acetylputrescine, cadaverine and 1,3-diaminopropane: potential biomarkers of lung cancer used to evaluate the efficacy of anticancer drugs. Oncotarget. 2017 Jul 17;8(51):88575-88585.

[2]. Pfanzagl B, et al. N-acetylputrescine as a characteristic constituent of cyanelle peptidoglycan in glaucocystophyte algae. J Bacteriol. 1996 Dec;178(23):6994-7.

[3]. Peng K W, et al. Identification and Validation of N-Acetylputrescine in Combination With Non-Canonical Clinical Features As a Parkinson's Disease Biomarker Panel[J]. bioRxiv, 2021: 2021.07. 23.453542.

∠NH₂



[4]. Menashe M, et al. Formulation of N-acetylputrescine and N1-acetylspermidine in cultured human lymphocytes. Biochem J. 1980 Apr 15;188(1):263-7.

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

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