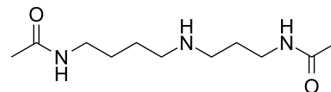


N1,N8-Diacetylspermidine

Cat. No.:	HY-129912		
CAS No.:	82414-35-5		
Molecular Formula:	C ₁₁ H ₂₃ N ₃ O ₂		
Molecular Weight:	229		
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	DMSO : 100 mg/mL (436.68 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3668 mL	21.8341 mL	43.6681 mL
		5 mM	0.8734 mL	4.3668 mL	8.7336 mL
		10 mM	0.4367 mL	2.1834 mL	4.3668 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.92 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.92 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	N1,N8-Diacetylspermidine is a polyamines in the human urine ^[1] . N1,N8-Diacetylspermidine is useful as prognostic indicators after treatment and during follow-up examination of cancer patients ^[2] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Umemori Y, et al. Evaluating the utility of N1,N12-diacetylspermine and N1,N8-diacetylspermidine in urine as tumormarkers for breast and colorectal cancers. Clin Chim Acta. 2010 Dec 14;411(23-24):1894-9.

[2]. Hiramatsu K, et al. Diagnostic and prognostic usefulness of N1,N8-diacetylspermidine and N1,N12-diacetylsperminein urine as novel markers of malignancy. J Cancer Res Clin Oncol. 1997;123(10):539-45

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

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