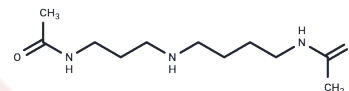


N1,N8-Diacetylspermidine

Chemical Properties

CAS No. :	82414-35-5
Formula:	C ₁₁ H ₂₃ N ₃ O ₂
Molecular Weight:	229.32
Storage:	Store at low temperature 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	N1,N8-Diacetylspermidine is a polyamine found in human urine. N1,N8-Diacetylspermidine can be used as a marker for cancer and malignancy.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (348.86 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: 3.3 mg/mL (14.39 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	4.3607 mL	21.8036 mL	43.6072 mL
5 mM	0.8721 mL	4.3607 mL	8.7214 mL
10 mM	0.4361 mL	2.1804 mL	4.3607 mL
50 mM	0.0872 mL	0.4361 mL	0.8721 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

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.

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

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