Product Data Sheet

N1,N11-Diethylnorspermine

Cat. No.:	HY-13610	
CAS No.:	121749-39-1	∼ ^H ^H ^H ^H
Molecular Formula:	C ₁₃ H ₃₂ N ₄	
Molecular Weight:	244.42	
Target:	Caspase	
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

DIOLOGICAL ACTIV		
Description	N1,N11-Diethylnorspermine (DENSPM) is a potent anticancer agent. N1,N11-Diethylnorspermine is a spermine analog that activates polyamine catabolism. N1,N11-Diethylnorspermine induces the release of cytochrome c from mitochondria, resulting in activation of caspase 3. N1,N11-Diethylnorspermine kills glioblastoma multiforme (GBM) cells through induction of SSAT (spermidine/spermine N1-acetyltransferase) coupled with H2O2 production ^{[1][2][3]} .	
IC ₅₀ & Target	Caspase 3	
In Vivo	N1,N11-Diethylnorspermine (40 mg/kg, three times per day for two cycles of 6 days) clearly prevents tumor growth in mice bearing xenografts of the DU-145 cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Schipper RG, et al. Antitumor activity of the polyamine analog N(1), N(11)-diethylnorspermine against human prostate carcinoma cells. Prostate. 2000 Sep 1;44(4):313-21.

[2]. Holst CM, et al. Molecular mechanisms underlying N1, N11-diethylnorspermine-induced apoptosis in a human breast cancer cell line. Anticancer Drugs. 2008 Oct;19(9):871-83.

[3]. Jiang R, et al. Activation of polyamine catabolism by N1,N11-diethylnorspermine leads to cell death in glioblastoma. Int J Oncol. 2007 Aug;31(2):431-40.

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

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