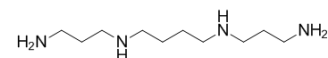


Spermine

Cat. No.:	HY-B1777
CAS No.:	71-44-3
Molecular Formula:	C ₁₀ H ₂₆ N ₄
Molecular Weight:	202.34
Target:	Endogenous Metabolite; Influenza Virus
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (617.77 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.9422 mL	24.7109 mL	49.4218 mL
5 mM	0.9884 mL	4.9422 mL	9.8844 mL
10 mM	0.4942 mL	2.4711 mL	4.9422 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Spermine (NSC 268508) functions directly as a free radical scavenger to protect DNA from free radical attack. Spermine has antiviral effects.
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	Spermine (NSC 268508) at physiologically relevant concentrations inhibits ROS-induced DNA damage, with maximal inhibition observed at 1 to 2 mM. These concentrations are well within the estimates for the physiological concentrations of spermine ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ha HC, et al. The natural polyamine spermine functions directly as a free radical scavenger. Proc Natl Acad Sci U S A. 1998 Sep 15;95(19):11140-5.

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

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