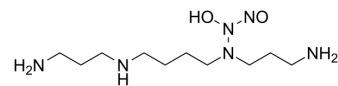


Spermine NONOate

Cat. No.:	HY-101394		
CAS No.:	136587-13-8		
Molecular Formula:	C ₁₀ H ₂₆ N ₆ O ₂		
Molecular Weight:	262.35		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (381.17 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	3.8117 mL	19.0585 mL	38.1170 mL
		5 mM	0.7623 mL	3.8117 mL	7.6234 mL
		10 mM	0.3812 mL	1.9059 mL	3.8117 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (190.59 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Spermine NONOate is a complex of nitric oxide (NO) with spermine and acts as a NO donor. Spermine NONOate can be used for NO aqueous solutions preparing ^[1] .
In Vitro	Spermine NONOate has a half-life of 39 minutes and 230 minutes at 37°C and 22-25°C, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. A Ramamurthi, et al. Measurement and modeling of nitric oxide release rates for nitric oxide donors. Chem Res Toxicol. 1997 Apr;10(4):408-13.
- [2]. K Homer, et al. In vitro comparison of two NONOates (novel nitric oxide donors) on rat pulmonary arteries. Eur J Pharmacol. 1998 Aug 28;356(1):49-57.

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

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