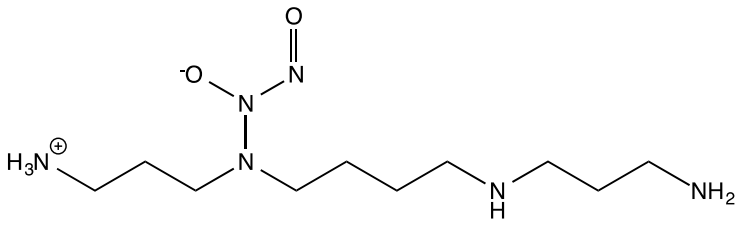
Catalog # 10-4549

Spermine NONOate

136587-13-8

1-{N-[3-Aminopropyl]-N-[4-(3-aminopropylammonio)butyl]-amino}-diazen-1-ium-1,2-diolate

Lot # FBA6085



Spermine NONOate is a nitric oxide donor and dissociates to the free amine and NO in a pH dependent manner. The half-life of Spermine NONOate in 0.1 M phosphate buffer at pH 7.4 is 39 min at 37 °C, or 230 min at room temperature.[1] Dissociation is essentially instantaneous at a pH of 5.0.

1) Keefer *et al*. (1996), *"NONOates" (1-substituted diazen-1-ium-1,2-diolates) as nitric oxide donors: Convenient nitric oxide dosage forms*; Methods Enzymol., **268** 281

PHYSICAL DATA

Molecular Weight:	262.35
Molecular Formula:	$C_{10}H_{26}N_6O_2$
Purity:	97% by (^{1}H-NMR)
Solubility:	Water or Ethanol
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -80°C for up to 1 years from the date of purchase. Protect from exposure to air or moisture. Product may be stored in 0.01M NaOH for 24 hours. Buffer solutions are not stable and must be prepared immediately prior to use. See half life information above.

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