Spermine NONOate

Nitric oxide donor

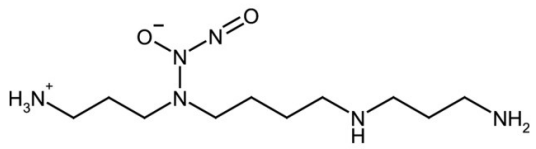
Nitric oxide (NO) donor. A convenient reagent for preparing aqueous solutions of NO.

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Ordering Information Order Online »

ALX-430-013-M005	5mg
ALX-430-013-5005	5x5mg
ALX-430-013-M025	25mg

Manuals, SDS & CofA View Online »


O
N
N
O
H3N
N
N
H
NH2

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Relatively stable in alkaline solution.
Handling	Protect from light and oxygen. Keep under inert gas. Hygroscopic.
Long Term Storage	-80°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	SPER/NO, (Z)-1-{N-[3-Aminopropyl]-N-[4-(3-aminopropylammonio)butyl]-amino}-diazen-1-ium-1,2-diolate
Appearance	White to off-white crystalline solid.
CAS	136587-13-8
Formula	$C_{10}H_{26}N_6O_2$
MW	262.4
Purity	≥97% (NMR)
Solubility	Soluble in water, methanol or 100% ethanol.
Technical Info / Product Notes	Product dissociates to the free amine and nitric oxide in a pH dependent manner following first order kinetics. Alkaline solutions of NONOates (in 0.01M NaOH) are stable and can be stored at 0°C for 24 hours. To initiate the release of nitric oxide add alkaline solution of Spermine NONOate to excess buffer of pH 7.0 – 7.4. Relatively high concentrated solutions can be prepared for further dilution. Half life in 0.1M phosphate buffer (pH 7.4) at 37 C is t½ (min.) 39. Decomposition is nearly instantaneous at pH 5.

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