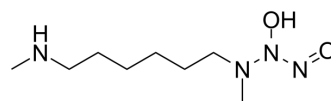


MAHMA NONOate

Cat. No.:	HY-134216
CAS No.:	146724-86-9
Molecular Formula:	C ₈ H ₂₀ N ₄ O ₂
Molecular Weight:	204.27
Target:	Endogenous Metabolite; NO Synthase
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	-80°C

* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro H₂O : 62.5 mg/mL (305.97 mM; adjust pH to 10 with NaOH)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.8955 mL	24.4774 mL	48.9548 mL
	5 mM	0.9791 mL	4.8955 mL	9.7910 mL
	10 mM	0.4895 mL	2.4477 mL	4.8955 mL

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

BIOLOGICAL ACTIVITY

Description MAHMA NONOate is a NO donor. MAHMA NONOate effectively inhibits platelet aggregation induced by either collagen or ADP [1].

In Vitro MAHMA NONOate (0.1 nM-100 μM) dose-dependently inhibits platelet aggregation induced by either collagen or ADP^[1]. MAHMA NONOate shows inhibitory effects to pulmonary artery and platelet aggregation with log IC₅₀ values of 7.18 and 6.16, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo MAHMA NONOate (0.3-10 nmol/kg/min; i.v. once) shows both platelet inhibitory and vasodepressor effects in vivo^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats anaesthetised with pentobarbitone ^[2]
Dosage:	0.3-10 nmol/kg/min
Administration:	Intravenous injection; 0.3-10 nmol/kg/min once

Result:

Dose-dependently decreased in mean systemic artery pressure and showed a more potent effect than GSNO. Caused dose-dependent inhibition of the response to 0.3 μ M/kg ADP.

REFERENCES

- [1]. Homer KL, Wanstall JC. Inhibition of rat platelet aggregation by the diazeniumdiolate nitric oxide donor MAHMA NONOate. *Br J Pharmacol*. 2002 Dec;137(7):1071-81.
- [2]. Homer KL, Wanstall JC. Platelet inhibitory effects of the nitric oxide donor drug MAHMA NONOate in vivo in rats. *Eur J Pharmacol*. 2003 Dec 15;482(1-3):265-70.
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Caution: Product has not been fully validated for medical applications. For research use only.

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