## **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:

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

$$N$$
  $N$   $N$   $N$ 

**Product** Data Sheet

## **SOLVENT & SOLUBILITY**

In Vitro

H<sub>2</sub>O: 62.5 mg/mL (305.97 mM; adjust pH to 10 with NaOH)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

DIO	OCI	CAL	ACTI	VITV
DIUL	LUGI	CAL A	40111	VIII

In Vitro

In Vivo

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

MAHMA NONOate (0.1 nM-100  $\mu$ M) dose-dependently inhibits platelet aggregation induced by either collagen or ADP<sup>[1]</sup>. MAHMA NONOate shows inhibitory effects to pulmonary artery and platelet aggregation with log IC<sub>50</sub> values of 7.18 and 6.16, respectively<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

MAHMA NONOate (0.3-10 nmol/kg/min; i.v. once) shows both platelet inhibitory and vasodepressor effects in vivo<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats anaesthetised with pentobarbitone <sup>[2]</sup>
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 showd a more potent
Result:	bose-dependently decreased in mean systemic artery pressure and snowd a more potent
	effect than GSNO. Caused dose-dependent inhibition of the response to 0.3 μM/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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com