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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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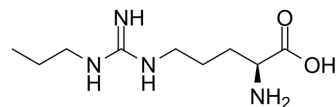
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N ω -Propyl-L-arginine

Cat. No.:	HY-102062	
CAS No.:	137361-05-8	
Molecular Formula:	C ₉ H ₂₀ N ₄ O ₂	
Molecular Weight:	216.28	
Target:	NO Synthase	
Pathway:	Immunology/Inflammation	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : \geq 100 mg/mL (462.36 mM)
 * " \geq " means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.6236 mL	23.1182 mL	46.2364 mL
	5 mM	0.9247 mL	4.6236 mL	9.2473 mL
	10 mM	0.4624 mL	2.3118 mL	4.6236 mL

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

BIOLOGICAL ACTIVITY

Description

N ω -Propyl-L-arginine (N-omega-Propyl-L-arginine) is a potent, competitive, and highly selective inhibitor of neuronal nitric oxide synthase (nNOS), with a K_i of 57 nM. N ω -Propyl-L-arginine displays a 149-fold selectivity for nNOS over endothelial NOS (eNOS)^{[1][2]}.

In Vivo

N ω -Propyl-L-arginine (N-omega-Propyl-L-arginine) (20 mg/kg; i.p.) blocks both phencyclidine-induced disruption of prepulse inhibition and phencyclidine-induced stimulation of locomotor activity^[2].

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

Animal Model:	Male NMRI mice (30-40 g) (phencyclidine-induced stimulation) ^[2]
Dosage:	20 mg/kg
Administration:	i.p.
Result:	Markedly reduced the phencyclidine-induced disruption of prepulse inhibition and

significantly reduced the phencyclidine-induced stimulation of locomotor activity.

REFERENCES

- [1]. Zhang HQ, et al. Potent and selective inhibition of neuronal nitric oxide synthase by N omega-propyl-L-arginine. *J Med Chem.* 1997 Nov 21;40(24):3869-70.
- [2]. Klamer D, et al. The neuronal selective nitric oxide synthase inhibitor, Nomega-propyl-L-arginine, blocks the effects of phencyclidine on prepulse inhibition and locomotor activity in mice. *Eur J Pharmacol.* 2004 Oct 25;503(1-3):103-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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