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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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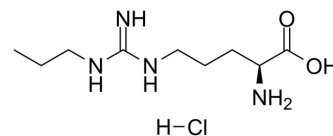
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N ω -Propyl-L-arginine hydrochloride

Cat. No.:	HY-102062A
CAS No.:	2321366-46-3
Molecular Formula:	C ₉ H ₂₁ ClN ₄ O ₂
Molecular Weight:	252.74
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (98.92 mM; Need ultrasonic and warming)
H₂O : 25 mg/mL (98.92 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		3.9566 mL	19.7832 mL	39.5664 mL
	5 mM		0.7913 mL	3.9566 mL	7.9133 mL
	10 mM		0.3957 mL	1.9783 mL	3.9566 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) hydrochloride 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 hydrochloride 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) hydrochloride (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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