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DATASHEET

N ω -Propyl-L-arginine hydrochloride

Product overview

| | |
|--------------------------|---|
| Name | N ω -Propyl-L-arginine hydrochloride |
| Cat No | HB0466 |
| Alternative names | L-NPA |
| Biological action | Inhibitor |
| Purity | >98% |
| Description | Potent, selective nNOS inhibitor |

Biological Data

| | |
|-------------------------------|---|
| Biological description | Potent and selective nNOS inhibitor ($K_i = 50$ nM). Highly selective for nNOS over eNOS and iNOS. Shows anti-convulsant actions and decreases blood pressure. |
|-------------------------------|---|

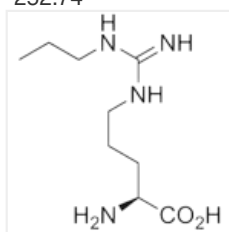
Solubility & Handling

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|-----------------------------|---|
| Storage instructions | room temperature (desiccate) |
| Solubility overview | Soluble in water (100mM) or DMSO (100nM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

Chemical Data

| | |
|-------------------------|---|
| Chemical name | N $^{\epsilon}$ -[Imino(propylamino)methyl]-L-ornithine hydrochloride |
| Molecular Weight | 252.74 |

Chemical structure



| | |
|---------------------------|---|
| Molecular Formula | C ₉ H ₂₀ N ₄ O ₂ .HCl |
| CAS Number | 137361-05-8 |
| PubChem identifier | 447180 |
| SMILES | N=C(NCCC[C@H](N)C(O)=O)NCCC.Cl |
| InChiKey | AOMXURITGZJPKB-ZETCQYMHSA-N |

References

Potent and selective inhibition of neuronal nitric oxide synthase by N omega-propyl-L-arginine.

Zhang HQ *et al* (1997) J Med Chem 40(24)

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The influence of nitric oxide synthase 1 on blood flow and interstitial nitric oxide in the kidney.

Kakoki M *et al* (2001) *Am J Physiol Regul Integr Comp Physiol* 281(1)

PubMedID [11404282](#)

N(w) -propyl-L-arginine (L-NPA) reduces status epilepticus and early epileptogenic events in a mouse model of epilepsy: behavioural, EEG and immunohistochemical analyses.

Beamer E *et al* (2012) *Eur J Neurosci* 36(9)

PubMedID [22943535](#)

The influence of nitric oxide synthase 1 on blood flow and interstitial nitric oxide in the kidney.

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PubMedID [11404282](#)
