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DATASHEET

L-NMMA

Product overview

Name	L-NMMA
Cat No	HB1353
Biological action	Inhibitor
Purity	>95% (NMR)
Description	Competitive, selective NOS inhibitor

Images



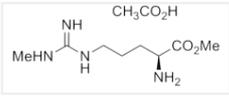
Biological Data

Biological description	Competitive and selective nitric oxide synthase (NOS) inhibitor (IC_{50} values are 6.6, 4.9 and 3.5 μM for iNOS, nNOS and eNOS respectively). Also inhibits cyclic GMP ($IC_{50} = 2.9 \mu M$). Displays hypertensive properties.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (50 mM)
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(omega)-Monomethyl-L-Arginine Acetate
Molecular Weight	248.28
Chemical structure	
Molecular Formula	$C_7H_{16}N_4O_2 \cdot CH_3CO_2H$
CAS Number	53308-83-1
PubChem identifier	135242
SMILES	<chem>CC(=O)O.CN=C(N)NCCCC[C@@H](C(=O)O)N</chem>
InChi	InChI=1S/C7H16N4O2.C2H4O2/c1-10-7(9)11-4-2-3-5(8)6(12)13;1-2(3)4/h5H,2-4,8H2,1H3,(H,12,13)

Chemical name	N(omega)-Monomethyl-L-Arginine Acetate
InChiKey	(H3,9,10,11);1H3,(H,3,4)/t5-;/m0./s1
MDL number	IKPNWIGTWUZCKM-JEDNCBNOSA-N
Appearance	MFCD00069311 White solid

References

Characterization of three inhibitors of endothelial nitric oxide synthase in vitro and in vivo.

Rees DD *et al* (1990) Br J Pharmacol 101(3)

PubMedID [1706208](#)

Nitric oxide synthases: structure, function and inhibition.

Alderton WK *et al* (2001) Biochem J 357(Pt 3)

PubMedID [11463332](#)

L-NMMA (a nitric oxide synthase inhibitor) is effective in the treatment of cardiogenic shock.

Cotter G *et al* (2000) Circulation 101(12)

PubMedID [10736276](#)

Evidence for the pathophysiological role of endogenous methylarginines in regulation of endothelial NO production and vascular function.

Cardounel AJ *et al* (2007) J Biol Chem 282(2)

PubMedID [17082183](#)
