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# DATASHEET

## D-NG-Monomethylarginine (D-NMMA)

### Product overview

<b>Name</b>	D-NG-Monomethylarginine (D-NMMA)
<b>Cat No</b>	HB0260
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Inactive enantiomer of L-NMMA

### Biological Data

<b>Biological description</b>	Inactive enantiomer of NG-Monomethyl-L-arginine (L-NMMA), a competitive NOS inhibitor. At a concentration of 100 $\mu$ M D-NMMA does not inhibit NOS. Used as a negative control for L-NMMA. Cell permeable.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water (1mg/ml) or methanol
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	248.3
<b>Chemical structure</b>	The chemical structure shows a guanidino group (HN=C(N)NH-) attached to a 4-amino-1-butyl chain (-CH2-CH2-CH2-CH2-NH2), which is further attached to a propionic acid chain (-CH2-CH2-COOH).
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> CH <sub>3</sub> COOH
<b>CAS Number</b>	137694-75-8
<b>PubChem identifier</b>	5702206
<b>SMILES</b>	CC(=O)O.CN=C(N)NCCCC(C(=O)O)N

### References

#### Endogenous nitric oxide as a modulator of rabbit skeletal muscle microcirculation in vivo.

Persson MG *et al* (1990) Br J Pharmacol 100(3)

**PubMedID** [2390671](#)

#### A specific inhibitor of nitric oxide formation from L-arginine attenuates endothelium-dependent relaxation.

Rees DD *et al* (1989) Br J Pharmacol 96(2)

**PubMedID** [2924084](#)

