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## DATASHEET

NG,NG-Dimethylarginine Dihydrochloride

### Product overview

<b>Name</b>	NG,NG-Dimethylarginine Dihydrochloride
<b>Cat No</b>	HB0449
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Competitive NOS inhibitor

### Images



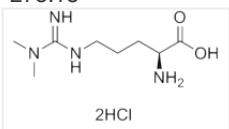
### Biological Data

<b>Biological description</b>	Competitive NOS inhibitor. Produced endogenously. Used as a biomarker.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature (desiccate)
<b>Solubility overview</b>	Soluble in water (100 mM)
<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>Chemical name</b>	(2S)-2-amino-5-[[amino(dimethylamino)methylidene]amino]pentanoic acid dihydrochloride
<b>Molecular Weight</b>	275.18
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>18</sub> N <sub>4</sub> O <sub>2</sub> ·2HCl
<b>CAS Number</b>	220805-22-1
<b>PubChem identifier</b>	16219246
<b>SMILES</b>	CN(C)C(=NCCC[C@@H](C(=O)O)N)N.Cl.Cl
<b>InChi</b>	InChI=1S/C8H18N4O2.2ClH/c1-12(2)8(10)11-5-3-4-6(9)7(13)14;/h6H,3-5,9H2,1-2H3,(H2,10,11)(H,13,14);2*1H/t6-;/m0../s1

InChiKey  
MDL number

SYLNVYJOPZWPJI-ILKKLZGPSA-N  
MFCD00270857

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## References

### Dimethylarginines ADMA and SDMA: the real water-soluble small toxins?

Schepers E *et al* (2014) *Semin Nephrol* 34(2)

**PubMedID** [24780466](#)

### Monitorization of asymmetric dimethylarginine (ADMA) levels in an experimental ischemia-reperfusion flap model: a preliminary report.

Karaaslan O *et al* (2013) *J Reconstr Microsurg* 29(6)

**PubMedID** [23585188](#)

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