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## DATASHEET

### S-Isopropyl-ITU hydrobromide

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#### Product overview

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|--------------------------|-----------------------------------|
| <b>Name</b>              | S-Isopropyl-ITU hydrobromide      |
| <b>Cat No</b>            | HB0583                            |
| <b>Biological action</b> | Inhibitor                         |
| <b>Description</b>       | Potent, competitive NOS inhibitor |

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#### Biological Data

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|-------------------------------|------------------------------------------------------------------------|
| <b>Biological description</b> | Potent and competitive NOS inhibitor ( $K_i = 5.2$ nM for mouse iNOS). |
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#### Solubility & Handling

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Solubility overview</b> | Soluble in DMSO or water                                                                                                      |
| <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. |

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#### Chemical Data

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|---------------------------|------------------------------|
| <b>Molecular Weight</b>   | 199.1                        |
| <b>Chemical structure</b> |                              |
| <b>CAS Number</b>         | 4269-97-0                    |
| <b>PubChem identifier</b> | 9813062                      |
| <b>SMILES</b>             | <chem>CC(C)SC(=N)N.Br</chem> |

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#### References

##### Isothioureas: potent inhibitors of nitric oxide synthases with variable isoform selectivity.

Southan GJ *et al* (1995) Br J Pharmacol 114(2)

**PubMedID** [7533622](#)

##### Potent and selective inhibition of human nitric oxide synthases. Inhibition by non-amino acid isothioureas.

Garvey EP *et al* (1994) J Biol Chem 269(43)

**PubMedID** [7523409](#)

##### Mapping the active site polarity in structures of endothelial nitric oxide synthase heme domain complexed with isothioureas.

Li H *et al* (2000) J Inorg Biochem 81(3)

**PubMedID** [11051558](#)

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