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## DATASHEET

Dihydrosphingosine

### Product overview

<b>Name</b>	Dihydrosphingosine
<b>Cat No</b>	HB0247
<b>Alternative names</b>	Sphinganine
<b>Biological action</b>	Inhibitor
<b>Description</b>	PKC inhibitor

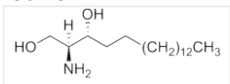
### Biological Data

**Biological description** Protein kinase C (PKC) inhibitor. Shows vasodilatory actions.

### Solubility & Handling

**Storage instructions** -20 °C (desiccate)  
**Solubility overview** Soluble in DMSO (100mM)  
**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

<b>Chemical name</b>	DL- <i>erythro</i> -1,3-Dihydroxy-2-aminoctadecane
<b>Molecular Weight</b>	301.51
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>39</sub> NO <sub>2</sub>
<b>CAS Number</b>	3102-56-5
<b>PubChem identifier</b>	5746414
<b>SMILES</b>	OC[C@](N)([H])[C@H](O)CCCCCCCCCCCCCCC
<b>InChiKey</b>	OTKJDMGTUTTYMP-QZTJIDSGSA-N

### References

**Effects of exogenous sphinganine, sphingosine, and sphingosine-1-phosphate on relaxation and contraction of porcine thoracic aortic and pulmonary arterial rings.**

Hsiao SH *et al* (2005) *Toxicol Sci* 86(1)

**PubMedID** [15829618](#)

**Sphinganine potentiation of dimethyl sulfoxide-induced granulocyte differentiation, increase of alkaline phosphatase activity and decrease of protein kinase C activity in a human leukemia cell line (HL-60).**

Yung BY *et al* (1994) *Biochem Biophys Res Commun* 199(2)

**PubMedID** [8135836](#)

**Protein kinase C mediated anti-proliferative glucocorticoid-sphinganine synergism in cultured Pollard III prostate tumor cells.**

Sosnowski J *et al* (1997) J Urol 158(1)

**PubMedID** [9186373](#)

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