

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

D-erythro-Sphingosine

### Product overview

<b>Name</b>	D-erythro-Sphingosine
<b>Cat No</b>	HB0239
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	PKC inhibitor

### Biological Data

<b>Biological description</b>	Protein kinase C (PKC) inhibitor. Also TRPM3 channel activator ( $EC_{50} = 12 \mu\text{M}$ ). Exhibits little or no activity for other TRP channels. Also inhibits platelet aggregation.
-------------------------------	---

### Solubility & Handling

<b>Solubility overview</b>	Soluble in ethanol (25mg/ml, gentle warming) or DMSO (25mg/ml, 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>Chemical name</b>	Sphingosine, C18 chain
<b>Molecular Weight</b>	299.5
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{18}H_{37}NO_2$
<b>CAS Number</b>	123-78-4
<b>PubChem identifier</b>	5280335
<b>SMILES</b>	<chem>CCCCCCCCCCCC/C=C/[C@@H](O)[C@@H](N)CO</chem>

### References

#### A concise synthesis of a promising protein kinase C inhibitor: D-erythro-sphingosine.

Pham VT *et al* (2007) Arch Pharm Res 30(1)  
**PubMedID** [17328238](#)

#### Activation of the melastatin-related cation channel TRPM3 by D-erythro-sphingosine [corrected].

Grimm C *et al* (2005) Mol Pharmacol 67(3)  
**PubMedID** [15550678](#)

#### Use of D-erythro-sphingosine as a pharmacological inhibitor of protein kinase C in human platelets.

Khan WA *et al* (1991) Biochem J 278 ( Pt 2)  
**PubMedID** [1898331](#)

