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DATASHEET

D-erythro-Sphingosine

Product overview

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

Biological Data

Biological description	Protein kinase C (PKC) inhibitor. Also TRPM3 channel activator (EC_{50} = 12 µM). Exhibits little or no activity for other TRP channels. Also inhibits platelet aggregation.

Solubility & Handling

Solubility overview	Soluble in ethanol (25mg/ml, gentle warming) or DMSO (25mg/ml, methanol)
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

Chemical name	Sphingosine, C18 chain
Molecular Weight	299.5
Chemical structure	
Molecular Formula	$C_{18}H_{37}NO_2$
CAS Number	123-78-4
PubChem identifier	5280335
SMILES	CCCCCCCCCCCCC/C=C/[C@@H](O)[C@@H](N)CO

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