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DATASHEET

Dihydrosphingosine

Product overview

Name	Dihydrosphingosine
Cat No	HB0247
Alternative names	Sphinganine
Biological action	Inhibitor
Description	PKC inhibitor

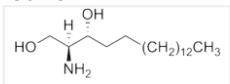
Biological Data

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

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