BIOTREND Chemicals AG
Unterdorfstr. 21
CH-8602 Wangen / Zurich
Switzerland
Tel + 41 44 805 76 76
Fax +41 44 805 76 77
Email: techserv@biotrend.ch
www.biotrend.ch

Certificate Of Analysis

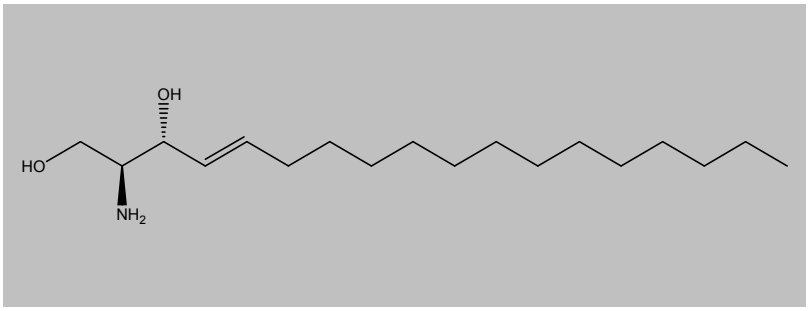
Quality Control Testing and Research Application

COA Preparation Date: 11/10/2016
COA Revision Date: 11/10/2019

Product:	**D-*erythro*-Sphingosine (synthetic)**
Cat. No:	BS0185
Batch No:	0185BS/01
Chemical Name:	*trans*-D-*erythro*-2-Amino-4-octadecene-1,3-diol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{18}H_{37}NO_2$
Batch Molecular Weight:	299.49
CAS No:	[123-78-4]
Physical Appearance:	White solid
Melting Point:	
Solubility:	Soluble to 5 mM in DMSO or to 50 mM in ethanol
Storage:	RT
Batch Molecular Structure:	



Product Description: **Potent and selective inhibitor of protein kinase C (PKC) (IC_{50} = 2.8 µM) and insulin receptor tyrosine kinase. PKC inhibition is competitive with respect to diacylglycerol, phorbol dibutyrate, and Ca^{2+}. Induces apoptosis in human leukemia HL-60 cells. Does not affect the activity of myosin light chain kinase (MLCK) or protein kinase A (PKA).**

References:

1. Merrill et al. (1989) Biochemistry 28:3138; 2. Grossman (1990) Agents Actions 31:171; 3. Arnold and Newton (1991) Biochemistry 30:7747; 4. Hakomori et al. (1991) Biochemistry 30:11682; 5. Ohta et al. (1995) Cancer Res 55:691; 6. Pushkareva et al. (1995) Biochemistry 34:1885

BIOTREND Chemicals AG
Unterdorfstr. 21
CH-8602 Wangen / Zurich
Switzerland
Tel + 41 44 805 76 76
Fax +41 44 805 76 77
Email: techserv@biotrend.ch
www.biotrend.ch

Certificate Of Analysis

Quality Control Testing and Research Application

COA Preparation Date: 11/10/2016
COA Revision Date: 11/10/2019

BS0185 D-*erythro*-Sphingosine (synthetic)

2. ANALYTICAL DATA

HPLC:	corresponds to the reference
MS:	corresponds to the reference
Tests:	HPLC Assay: > 98% (complies).