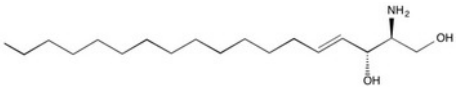
Tribioscience

Sphingosine, PKC inhibitor

Catalog	Unit
TBI2287-20MG	20mg
TBI2287-100MG	100mg

Product Details

Formal Name: (2S,3R,4E)-2-Amino-4-octadecene-1,3-diol
Alternate Names: D(+)-erythro-1,3-Dihydroxy-2-amino-4-trans-octadecene
Molecular Formula: $C_{18}H_{37}NO_2$
Formula Weight: 299.50
CAS Number: 123-78-4
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 25 mg/ml with warming) or in Ethanol (up to 25 mg/ml with warming).
Storage: -20°C
Stability: ≥ 1 year.



Applications

PKC inhibitor

Functions

Endogenous sphingolipid found in cells esterified as phosphatidylcholine (sphingomyelin) and released by the action of sphingomyelinases. Potent and selective inhibitor of protein kinase C (IC50=1-3 μM). Inhibition is competitive with DAG, phorbol esters and Ca2+. May be phosphorylated by sphingosine kinases producing sphingosine-1-phosphate, a bioactive lipid producing a plethora of biological effects.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml with warming) or in Ethanol (up to 25 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or Ethanol may be stored at -20°C for up to 3 months.

For research use only.