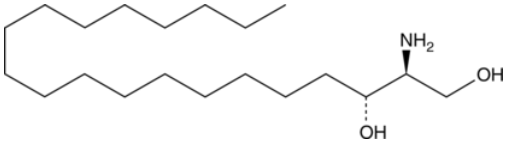
Product Data Sheet

Product Name: Sphinganine (d20:0)
Cat. No.: GC44925

Chemical Properties

Cas. No.	24006-62-0		
SMILES	OC[C@H](N)[C@H](O)CCCCCCCCCCCCCCCC		
Formula	$C_{20}H_{43}NO_2$	M.Wt	329.6
Solubility	Chloroform:Methanol (5:1): soluble,Ethanol: soluble, warmed	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Sphinganine (d20:0) is a natural isomer of dihydro-D-erythro-sphinganine (sphinganine (d18:0); that is a precursor of ceramide and sphingosine as well as a substrate for sphingosine kinases, which generate sphingosine-1-phosphate (d18:1) . In S. cerevisiae, the amount of sphinganine (d20:0) increases 10.8-fold in response to heat stress, indicating it is involved in heat stress adaptation. Sphinganine levels increase significantly in response to certain mycotoxins, including fumonisins as well as in some cancers. Sphinganine can block protein kinase C activation in some cases but not others.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA