

Product Information

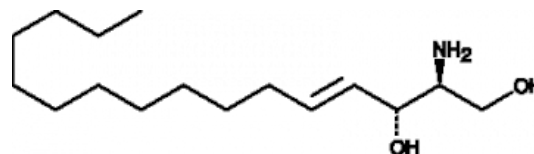


Sphingosine (d16:1)

Cat No: 22356 - 1 mg

General Data

Shipping:	dry ice
Formulation:	A crystalline solid
Purity:	≥95%



Product Overview

Sphingosine (d16:1) is an atypical sphingolipid formed by a series of enzymatic steps beginning with the condensation of myristoyl-CoA (Item No. 21049) and serine via serine palmitoyltransferase long-chain base subunit 3 (SPTLC3), an SPT subunit that prefers myristoyl-CoA over palmitoyl-CoA.^{62016,62017} Sphingosine d16:1 is present in its free form at low levels in human plasma and as the sphingoid base in a variety of plasma sphingolipid species, including sphingosine-1-phosphate, ceramides, and sphingomyelins, as well as brain cerebroside, at lower levels compared with the typical d18:1 (Item No. 10007907) sphingoid base.^{62021,62018,62020,62019} Sphingosine (d16:1) inhibits PKC in a mixed micelle activity assay.^{15200} It reduces the production of superoxide induced by phorbol 12-myristate 13-acetate (PMA; Item No. 10008014) in isolated human neutrophils and reduces the growth of CHO cells (IC₅₀s = 1 and 3.2 μM, respectively). Plasma levels of sphingolipids containing sphingosine (d16:1) are associated with dietary intake of saturated fatty acids and protein in ethnic Chinese individuals.^{62021} Plasma levels of sphingolipids containing sphingosine (d16:1) are decreased in patients with type 2 diabetes.^{62014}

FP/19/24

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