

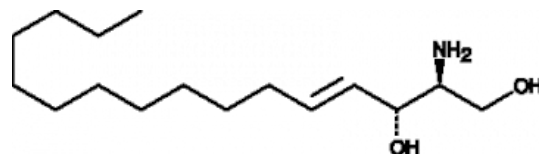


## Sphingosine (d16:1)

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.<sup>{62016,62017}</sup> 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 cerebrosidés, at lower levels compared with the typical d18:1 (Item No. 10007907) sphingoid base.<sup>{62021,62018,62020,62019}</sup> Sphingosine (d16:1) inhibits PKC in a mixed micelle activity assay.<sup>{15200}</sup> 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 (IC<sub>50</sub>s = 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.<sup>{62021}</sup> Plasma levels of sphingolipids containing sphingosine (d16:1) are decreased in patients with type 2 diabetes.<sup>{62014}</sup>

FP/03/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

Bertin Bioreagent does not make any other warranty or representation whatsoever whether expressed or implied, with respect to these products. In no event will Bertin Bioreagent be liable for incidental, consequential or punitive damages.

Contact Bertin Bioreagent

Parc d'Activités du Pas du Lac  
10 bis avenue Ampère  
78180 Montigny le Bretonneux - France

Tel.: +33 (0)139 306 036

<https://www.bertin-bioreagent.com/pa206/contact-us>

<https://www.bertin-bioreagent.com>