

Product Data Sheet

Product Name: C19 Ceramide (d18:1/19:0)

Cat. No.: GC43057

Chemical Properties

Cas. No. 67492-17-5

Chemical Name N-[(1S,2R,3E)-2-hydroxy-1-(hydroxymethyl)-3-heptadecen-1-yl]-nonadecanamide

SMILES OC[C@@H]([C@H](O)/C=C/CCCCCCCCCCCCC)NC(CCCCCCCCCCCCCCCCCC)=O

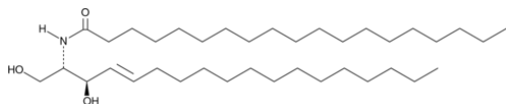
Formula C₃₇H₇₃NO₃ M.Wt 580

Solubility Soluble in ethanol (warmed), methanol (warmed), chloroform 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

C19 Ceramide is a naturally occurring ceramide that has been found in *J. juncea* extracts as well as rat brain and mouse heart.[1],[2],[3] It is elevated in adult and decreased in juvenile whole rat brain extracts by 114 and 37%, respectively, following chronic ethanol exposure.[2] C19 Ceramide is also increased in mouse hearts following administration of angiotensin II.[3]

Reference:

- [1]. Krishna, N., Muralidhar, P., Kumar, M.M., et al. A new sphingolipid from the gorgonian *Junceella juncea* of the Indian ocean. *Nat. Prod. Res.* 18(6), 551-555 (2004).
- [2]. Roux, A., Muller, L., Jackson, S.N., et al. Chronic ethanol consumption profoundly alters regional brain ceramide and sphingomyelin content in rodents. *ACS Chem Neurosci.* 6(2), 247-259 (2015).
- [3]. Glenn, D.J., Cardema, M.C., Ni, W., et al. Cardiac steatosis potentiates angiotensin II effects in

Caution: Product has not been fully validated for medical applications. For research use only.

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the heart. Am. J. Physiol. Heart Circ. Physiol. 308(4), H339-350 (2015).

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