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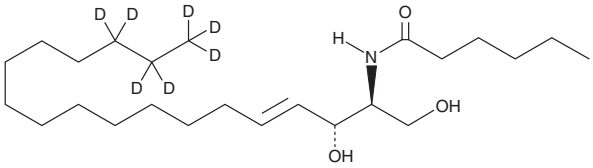
PRODUCT INFORMATION

C6 Ceramide-d_7 (d18:1-d_7/6:0)

Item No. 24826



CAS Registry No.: 2692624-22-7
Formal Name: N-[(1S,2R,3E)-2-hydroxy-1-(hydroxymethyl)-3-heptadecen-1-yl-15,15,16,16,17,17,17-d_7]-hexanamide
Synonyms: N-Caproyl-C18-Sphingosine-d_7, Cer-d_7(d18:1-d_7/6:0), C6 Ceramide-d_7, Ceramide-d_7 (d18:1-d_7/6:0), N-hexanoyl-D-*erythro*-Sphingosine-d_7
MF: $C_{24}H_{40}D_7NO_3$
FW: 404.7
Chemical Purity: ≥98% (C6 Ceramide)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤1% d_0
Supplied as: A solution in methanol
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

C6 Ceramide-d_7 (d18:1-d_7/6:0) is intended for use as an internal standard for the quantification of short-chain ceramides, such as C2 ceramide (Item Nos. 62510 | 24386 | 24387), C6 ceramide (Item No. 62525), and C8 ceramide (Item Nos. 62540 | 24391 | 24392), by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

C6 Ceramide-d_7 (d18:1-d_7/6:0) is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. C6 Ceramide-d_7 (d18:1-d_7/6:0) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of C6 ceramide-d_7 (d18:1-d_7/6:0) in these solvents is approximately 33, 20, and 22 mg/ml, respectively.

Description

C6 Ceramide is a cell-permeable analog of naturally occurring ceramides. With a longer carbon chain than C2 ceramide, it is somewhat more hydrophobic, and may more closely mimic the effects of natural ceramides.[1] C6 Ceramide mediates many diverse biological activities including apoptosis, activation of protein phosphatase 2A, and inhibition of the mitochondrial respiratory chain.[1-4] It also enhances the expression of COX-2 in rat granulosa cells and stimulates the growth of bovine aortic smooth muscle cells.[5,6] C6 Ceramide acts in neuronal axons to inhibit neurite growth.[7]

References

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