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- Trockeneiszuschlag
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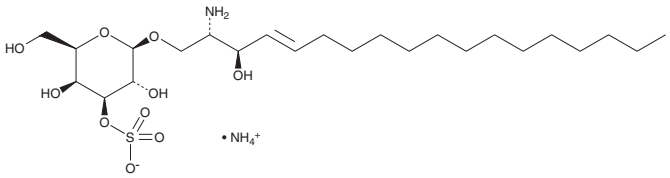
PRODUCT INFORMATION

3'-sulfo Galactosylsphingosine (ammonium salt)

Item No. 25316

CAS Registry No.: 1246681-32-2
Formal Name: (2S,3R,4E)-2-amino-3-hydroxy-4-octadecen-1-yl, β-D-galactopyranoside, 3-(hydrogen sulfate), monoammonium salt
Synonyms: Lyso 3'-sulfo Galactosylceramide, Lyso-Sulfatide, Sphingosine-1-Galactoside-3-Sulfate, Sulfogalactosylsphingosine
MF: $C_{24}H_{46}NO_{10}S \bullet NH_4$
FW: 558.7
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

3'-sulfo Galactosylsphingosine (ammonium salt) is supplied as a solid. A stock solution may be made by dissolving the 3'-sulfo galactosylsphingosine (ammonium salt) in the solvent of choice. 3'-sulfo Galactosylsphingosine (ammonium salt) is soluble in a 2:1 solution of chloroform:methanol.

Description

3'-sulfo Galactosylsphingosine is a form of sulfatide (Item No. 24323) that is lacking the fatty acyl group. It decreases migration and adhesion of B35 neuroblastoma cells and increases cell rounding when used at a concentration of 20 µM.[1] It also inhibits PKC and cytochrome c oxidase activity when used at concentrations of 150 and 50-100 µM, respectively.[2] 3'-sulfo Galactosylsphingosine accumulates in patients with metachromatic leukodystrophy, a lysosomal storage disorder characterized by arylsulfatase A (ASA) deficiency leading to progressive demyelination and neuromotor deficits.[3] In mice lacking ASA, levels of 3'-sulfo galactosylsphingosine increase after one month of age followed by demyelination and neuromotor deficits.[2,3] 3'-sulfo Galactosylsphingosine has been used as a standard for the quantification of 3'-sulfo galactosylsphingosine by LC-MS.[4]

References

1. Hans, M., Pusch, A., Dai, L., *et al.* Lysosulfatide regulates the motility of a neural precursor cell line via calcium-mediated process collapse. *Neurochem. Res.* **34(3)**, 508-517 (2009).
2. Blomqvist, M., Gieselmann, V., and Månsson, J.E. Accumulation of lysosulfatide in the brain of arylsulfatase A-deficient mice. *Lipids Health Dis.* **10:28**, (2011).
3. Toda, K., Kobayashi, T., Goto, I., *et al.* Lysosulfatide (sulfogalactosylsphingosine) accumulation in tissues from patients with metachromatic leukodystrophy. *J. Neurochem.* **55(5)**, 1585-1591 (1990).
4. Mirzaian, M., Kramer, G., and Poorthuis, B.J. Quantification of sulfatides and lysosulfatides in tissues and body fluids by liquid chromatography-tandem mass spectrometry. *J. Lipid. Res.* **56(4)**, 936-943 (2015).

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