



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## C18 3'-sulfo Galactosylceramide (d18:1/18:0)

Item No. 24863

CAS Registry No.: 244215-65-4

Formal Name: N-[(1S,2R,3E)-2-hydroxy-1-[[[3-O-sulfo-β-D-galactopyranosyl]oxy]methyl]-3-heptadecen-1-yl]-octadecanamide

Synonym: 3'-sulfo Galactosylceramide (d18:1/18:0), (3'-sulfo)Galβ-Cer(d18:1/18:0), N-Octadecanoyl Sulfatide, C18 Sulfatide

MF: C<sub>42</sub>H<sub>81</sub>NO<sub>11</sub>S

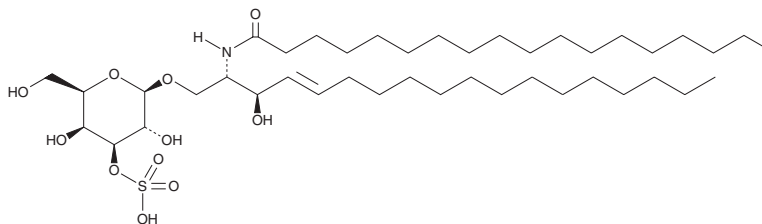
FW: 808.2

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



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

### Laboratory Procedures

C18 3'-sulfo Galactosylceramide (d18:1/18:0) is supplied as a solid. A stock solution may be made by dissolving the C18 3'-sulfo Galactosylceramide (d18:1/18:0) in the solvent of choice. C18 3'-sulfo galactosylceramide (d18:1/18:0) is soluble in a 5:1 solution of chloroform:methanol.

### Description

C18 3'-sulfo Galactosylceramide is a member of the sulfatide class of glycolipids. Levels of short-chain sulfatides, including C18 3'-sulfo galactosylceramide, decrease with age in mice and humans.<sup>1,2</sup> It is increased in brain from mice with an arylsulfatase A deficiency (ASA-KO), particularly in lipid raft fractions.<sup>1,3</sup> Plasma levels of C18 3'-sulfo galactosylceramide positively correlate with disability progression in patients with relapsing-remitting multiple sclerosis using the Expanded Disability Status Scale.<sup>4</sup> It is also increased in plasma from patients with metachromatic leukodystrophy (MLD).<sup>5</sup>

### References

1. Isaac, G., Pernber, Z., Gieselmann, V., *et al.* Sulfatide with short fatty acid dominates in astrocytes and neurons. *FEBS J.* **273**(8), 1782-1790 (2006).
2. Svennerholm, L. and Ställberg-Stenhagen, S. Changes in the fatty acid composition of cerebrosides and sulfatides of human nervous tissue with age. *J. Lipid Res.* **9**(2), 215-225 (1968).
3. Moyano, A.L., Li, G., Lopez-Rosas, A., *et al.* Distribution of C16:0, C18:0, C24:1, and C24:0 sulfatides in central nervous system lipid rafts by quantitative ultra-high-pressure liquid chromatography tandem mass spectrometry. *Anal. Biochem.* **467**, 31-39 (2014).
4. Moyano, A.L., Pituch, K., Li, G., *et al.* Levels of plasma sulfatides C18 : 0 and C24 : 1 correlate with disease status in relapsing-remitting multiple sclerosis. *J. Neurochem.* **127**(5), 600-604 (2013).
5. Saville, J.T., Smith, N.J.C., Fletcher, J.M., *et al.* Quantification of plasma sulfatides by mass spectrometry: Utility for metachromatic leukodystrophy. *Anal. Chim. Acta* **955**, 79-85 (2017).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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