

Product Data Sheet

Product Name: Monogalactosyl Diglyceride

Cat. No.: GC44242

Chemical Properties

Cas. No. 41670-62-6

Chemical Name 2,3-bis[(1-oxooctadecyl)oxy]propyl-β-D-galactopyranoside

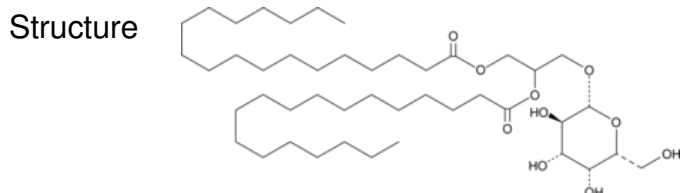
SMILES O[C@@H]1[C@H](O)[C@@H](O)[C@H](OCC(OC(CCCCCCCCCCCCCCCCCC)=O)COCC(CCCCCCCCCCCCCCCCCC)=O)O[C@@H]1CO

Formula C₄₅H₈₆O₁₀ M.Wt 787.2

Solubility Chloroform:Methanol (1:1): 10 mg/ml 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.



Background

Monogalactosyl diglyceride is a minor galactolipid present in oligodendrocytes and myelin, as well as comprises a major fraction of the lipids in photosynthesizing plants and green microorganisms. [1][2] It is used as a marker for myelination and has also been shown to stimulate PKCα activity in oligodendrocytes. [2]

Reference:

- [1]. Schmidt-Schultz, T., and Althaus, H.H. Monogalactosyl diglyceride, a marker for myelination, activates oligodendroglial protein kinase C. Journal of Neurochemistry 62(4), 1578-1585 (1994).
- [2]. Rosenberg, A., Gouaux, J., and Milch, P. Monogalactosyl and digalactosyl diglycerides from

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

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heterotrophic, hetero-autotrophic, and photobiotic *Euglena gracilis*. Journal of Lipid Research 7(6), 733-738 (1996).

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