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- Trockeneiszuschlag
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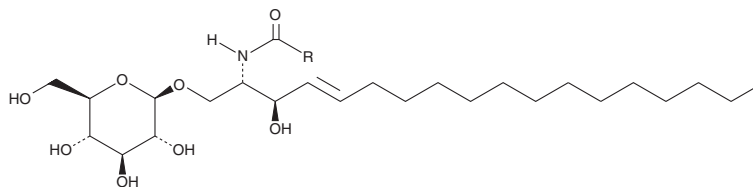
PRODUCT INFORMATION



Glucosylceramides (Gaucher's spleen)

Item No. 23207

CAS Registry No.: 85305-87-9
Formal Name: 1-O-β-D-glucopyranosyl-ceramide
Synonyms: Ganglioside G_{L1a}, Gaucher cerebroside, GluCers (Gaucher's spleen), Glucosylceramides (gaucher's spleen)
MF: C₄₈H₉₃NO₈ (for lignoceryl)
FW: 812.3
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

Glucosylceramides (Gaucher's spleen) is supplied as a solid. A stock solution may be made by dissolving the glucosylceramides (Gaucher's spleen) in the solvent of choice. Glucosylceramides (Gaucher's spleen) is soluble in a 2:1 solution of chloroform:methanol.

Description

Glucosylceramides are formed by the tethering of glucose to a ceramide by glucosylceramide synthase.¹ They are present in neuronal and non-neuronal mammalian tissues and are found at low quantities in a large number of plant species, where they comprise 5-30% of total lipids in the plant plasma membrane, and in fungi.¹⁻³ Glucosylceramide levels decrease during cold acclimatization in plants and glucosylceramides in fungi are involved in the regulation of virulence and act as elicitors in plants, stimulating plant defense mechanisms.^{3,4} Glucosylceramides are precursors in the synthesis of lactosylceramides and gangliosides. Increased levels of glucosylceramides are associated with obesity-induced insulin resistance in mice and with neuronal deficits observed in neuronopathic Gaucher disease.^{1,5} This product is a mixture of glucosylceramides, with variable ceramide chain lengths, isolated from the spleen of a human with Gaucher's disease.

References

1. Holland, W.L. and Summers, S.A. Sphingolipids, insulin resistance, and metabolic disease: New insights from *in vivo* manipulation of sphingolipid metabolism. *Endocr. Rev.* **29(4)**, 381-402 (2008).
2. Cahoon, E.B. and Lynch, D.V. Analysis of Glucocerebroside of Rye (*Secale cereale* L. cv Puma) Leaf and Plasma Membrane. *Plant Physiol.* **95(1)**, 56-68 (1991).
3. Lynch, D.V. and Dunn, T.M. An introduction to plant sphingolipids and a review of recent advances in understanding their metabolism and function. *New Phytol.* **161(3)**, 667-702 (2004).
4. Rollin-Pinheiro, R., Bernardino, M.C., and Barreto-Bergter, E. Sphingolipids: Functional and biological aspects in mammals, plants, and fungi. *Analysis of membrane lipids*. Prasad, R. and Singh, A., Springer (2020).
5. Dai, M., Liou, B., Swope, B., *et al.* Progression of behavioral and CNS deficits in a viable murine model of chronic neuronopathic Gaucher disease. *PLoS One* **11(9)**, e0162367 (2016).

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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