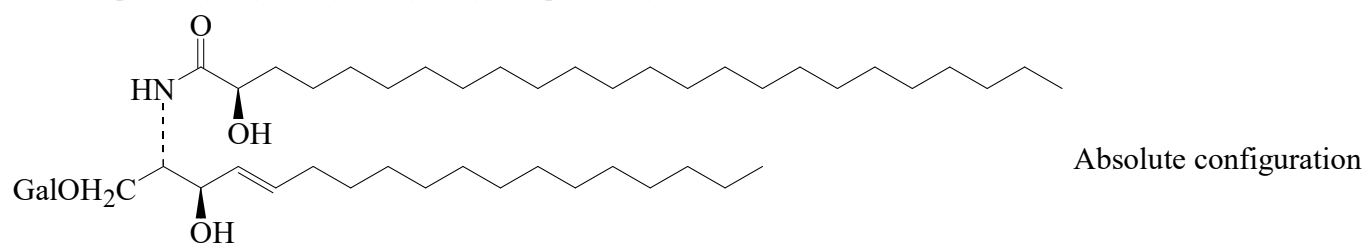




>>Entry Name: **N-2-Hydroxytetracosanoylgalactocerebroside**

Synonym(s): *N*-[1-[(β -D-Galactopyranosyloxy)methyl]-2-hydroxy-3-heptadecenyl]-2-hydroxytetracosanamide, 9Cl. Cerebron. Phrenosine



CAS Registry Number: 586-02-7

Extra CAS Registry Numbers(s): 112246-64-7 136598-19-1

Molecular Formula: C₄₈H₉₃NO₉

Molecular Weight: 828.264

Accurate Mass: 827.685034

Percentage Composition: C 69.61%; H 11.32%; N 1.69%; O 17.39%

Biological Source: Found in brain cerebroside

Melting Point: Mp 200-201°

Optical Rotation: $[\alpha]_D^{30} +2.47$ (c, 4.86 in Py). $[\alpha]_D +3.98$ (c, 10 in Py)

>>Derivative: Hexa-Ac

Melting Point: Mp 40-41°

Optical Rotation: $[\alpha]_D^{25} -10$ (c, 1.1 in 1:1 CHCl₃/MeOH)

>>Derivative: *O*-Benzoyl, tetra-*O*-Ac

Melting Point: Mp 41-44°

References:

- Carter, H.E. *et al.*, *J. Lipid Res.*, 1961, **2**, 228, (*isol*)
Shapiro, D. *et al.*, *J.A.C.S.*, 1961, **83**, 3327, (*synth*)
Klenk, E. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1967, **348**, 1061, (*isol*)
Martin-Lomas, M. *et al.*, *Chem. Phys. Lipids*, 1973, **10**, 152, (*pmr*)
Oldani, D. *et al.*, *Biochim. Biophys. Acta*, 1975, **382**, 1, (*props*)
Bunow, M.R., *Biochim. Biophys. Acta*, 1979, **574**, 542, (*props*)
Gigg, R., *Chem. Phys. Lipids*, 1980, **26**, 287, (*rev*)
Ohashi, Y. *et al.*, *Biochemistry*, 1987, **26**, 3990-3995, (*ms*)
Koike, K. *et al.*, *Carbohydr. Res.*, 1987, **162**, 237-246, (*synth*)