

n-TETRADECYL-β-D-MALTOPYRANOSIDE

Used to study the G-protein coupled receptors

Product Description

Catalog #:
Name: N-tetradecyl-β-D- maltopyranoside

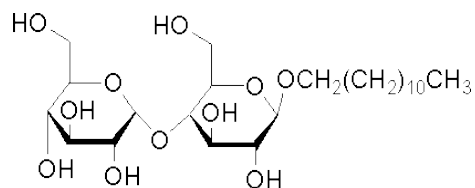
 (C₁₄-maltoside)

n-Tetradecyl-β-D-maltoside / Tetradecyl 4-O-α-D-glucopyranosyl-β-D-glucopyranoside
Structure:

 C₂₆H₅₀O₁₁

MW: 538.6

CAS [18449-82-6]


Specifications:

CMC (H ₂ O)	~ 0.01 mM ¹
(0.00054%)	
Purity analysis.	>99% by HPLC
Percent alpha	< 2 (HPLC)
Percent tetradecanol	< 0.005 (HPLC)
pH (1% solution)	5-8
Solubility in water at 0-5°C	>20%
Conductance (10% solution)	< 40 μS
Percent fluorescence due to a 0.1% detergent solution at 345 nm	< 10
Absorbance of a 1% detergent solution:	
340 nm	< 0.04
280 nm	< 0.06
260 nm	< 0.1
225 nm	< 0.2

Storage: -20°C

Directions for use

Guidelines for use

Prepare Rhodopsin as a mixture of monomers and dimers in the detergent n-dodecyl-β-d-maltoside at 0.15%, and as larger, nonhomogeneous particles in *n*-tetradecyl-β-d-maltoside (0.03%) and *n*-hexadecyl-β-d-maltoside (0.003%)

Technical and Scientific Information

References

- **Heerklotz H.**, Membrane Stress and Permeabilization Induced by Asymmetric Incorporation of Compounds, *Biophys J.*, p. 184-195, Vol. 81, No. 1 (2001)
- **Jastrzebska B**, *et al.* Functional and Structural Characterization of Rhodopsin Oligomers, *J Biol Chem.* 281:11917-11922 (2006) [Article](#)
- **White J. et al.**, Dimerization of the class A G protein-coupled neurotensin receptor NTS1 alters G protein interaction, *PNAS*, 104: 12199 – 12204 (2007) [Article](#)

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[page A352+](#) [other saturating agents for immunoassays \(i.e. SeaBlock\)](#)

- n-Dodecyl-b-D-Maltoside, [UP346751](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
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