

N-Dodecyl- β -D-maltoside

Chemical Properties

CAS No. : 69227-93-6

Formula: C₂₄H₄₆O₁₁

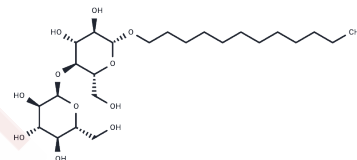
Molecular Weight: 510.62

Storage:

Store at low temperature, Keep away from direct sunlight, Store under nitrogen

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	N-Dodecyl- β -D-maltoside (Lauryl Maltoside) is an alkyl maltopyranoside detergent, particularly useful in transporters and respiratory complexes. It is a derivative of pyrene (Py) and has applications in the purification and stabilization of RNA polymerase, as well as the detection of protein-lipid interactions.
Targets(IC50)	Others, DNA/RNA Synthesis

Solubility Information

Solubility	H ₂ O: 105 mg/mL (205.63 mM), Sonication is recommended. DMSO: 250 mg/mL (489.6 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9584 mL	9.792 mL	19.584 mL
5 mM	0.3917 mL	1.9584 mL	3.9168 mL
10 mM	0.1958 mL	0.9792 mL	1.9584 mL
50 mM	0.0392 mL	0.1958 mL	0.3917 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zahid NI, et al. Evidence of Increased Hydrophobicity and Dynamics inside the Tail Region of Glycolipid Self-Assemblies Using 2-n-Alkyl-Pyrene Derivatives to Probe Different Locations. Langmuir. 2019 Jul 23;35(29):9584-9592.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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