

N-Octyl- β -D-thioglucopyranoside

Chemical Properties

CAS No. :	85618-21-9
Formula:	C ₁₄ H ₂₈ O ₅ S
Molecular Weight:	308.434
Storage:	Store at 4°C Actual storage temperature shall be subject to the COA.

Biological Description

Description	N-Octyl- β -D-thioglucopyranoside (octylthioglucoside, OTG) is a mild nonionic detergent characterized by a thioglycosidic linkage that is used for effective cell lysis or to solubilise integral membrane proteins without denaturing their tertiary or quaternary structure; this property is particularly of use in order to crystallise them for structural studies or to reconstitute them into artificial lipid bilayers for functional assays.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2422 mL	16.2111 mL	32.4223 mL
5 mM	0.6484 mL	3.2422 mL	6.4845 mL
10 mM	0.3242 mL	1.6211 mL	3.2422 mL
50 mM	0.0648 mL	0.3242 mL	0.6484 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

Saito S, et al. Characteristics of n-octyl beta-D-thioglucopyranoside, a new non-ionic detergent useful for membrane biochemistry. Biochem J. 1984 Sep 15;222(3):829-32.

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