

Nonyl  $\beta$ -D-glucopyranoside

## Chemical Properties

CAS No. : 69984-73-2

Formula: C<sub>15</sub>H<sub>30</sub>O<sub>6</sub>

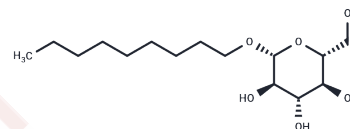
Molecular Weight: 306.4

Storage:

Store under nitrogen, Keep away from moisture, Store at low temperature

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	Nonyl $\beta$ -D-glucopyranoside is an organic compound frequently utilized in life sciences research, particularly in the solubilization and stabilization of membrane proteins. Nonyl $\beta$ -D-glucopyranoside supports studies related to biochemistry, molecular biology, and biophysics, where mild detergents are required for preserving protein function while maintaining structural integrity.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: $\geq$ 80 mg/mL, Sonication is recommended. H <sub>2</sub> O: 20%, 0-5°C ( $<$ 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (10.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.2637 mL	16.3185 mL	32.6371 mL
5 mM	0.6527 mL	3.2637 mL	6.5274 mL
10 mM	0.3264 mL	1.6319 mL	3.2637 mL
50 mM	0.0653 mL	0.3264 mL	0.6527 mL

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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

Annette Meister, et al. The interaction of n-nonyl- $\beta$ -d-glucopyranoside and sodium dodecyl sulfate with DMPC and DMPG monolayers studied by infrared reflection absorption spectroscopy. *Phys. Chem. Chem. Phys.*, 2004,6, 5543-5550

Otsuka K, et al. Enantiomer separation of drugs by micellar electrokinetic chromatography using chiral surfactants. *J Chromatogr A*. 2000 Apr 14;875(1-2):163-78.

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