



# SZABO SCANDIC

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- Trockeneiszuschlag
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- Expressversand

### SZABO-SCANDIC HandelsgmbH

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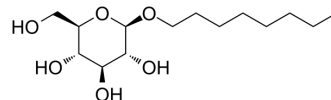
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## n-Octyl β-D-glucopyranoside

Cat. No.:	HY-116285		
CAS No.:	29836-26-8		
Molecular Formula:	C <sub>14</sub> H <sub>28</sub> O <sub>6</sub>		
Molecular Weight:	292.37		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (342.03 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	3.4203 mL	17.1016 mL
		5 mM	3.4203 mL	6.8406 mL
		10 mM	0.3420 mL	1.7102 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.55 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.55 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.55 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	n-Octyl-β-d-glucopyranoside is a non-ionic detergent, it can be widely used in the research of biotechnical, biochemical applications, solubilization and crystallization of membrane proteins. n-Octyl-β-d-glucopyranoside can completely inhibit cavitation-induced cell lysis in vitro <sup>[1][2][3]</sup> .
In Vitro	Suspensions of HL-60 cells are exposed to 1.057 MHz unfocused ultrasound for 5-15 s with various additions of alkyl glucopyranosides. 2 mM n-Octyl β-D-glucopyranoside (OGP) added to the medium results in 100% survival of the cells after 5 s exposure under conditions which produces 35%-100% cell lysis without the additive <sup>[3]</sup> .

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Variation of the concentration of n-Octyl  $\beta$ -D-glucopyranoside for 0.5 MPa exposure produced increased cavitation and lysis at 1 mM relative to 0 mM, but decreased cavitation at 5 mM<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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- [1]. Konidala P, et al. Molecular dynamics characterization of n-octyl-beta-D-glucopyranoside micelle structure in aqueous solution. J Mol Graph Model. 2006 Sep;25(1):77-86.
- [2]. Gould RJ, et al. Effects of octyl beta-glucoside on insulin binding to solubilized membrane receptors. Biochemistry. 1981 Nov 24;20(24):6776-81.
- [3]. Douglas L Miller, et al. The influence of octyl  $\beta$ -D-glucopyranoside on cell lysis induced by ultrasonic cavitation. J Acoust Soc Am. 2011 Nov;130(5):3482-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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