FT-263703

# n-Octyl-β-D-Glucopyranoside

## Product Information

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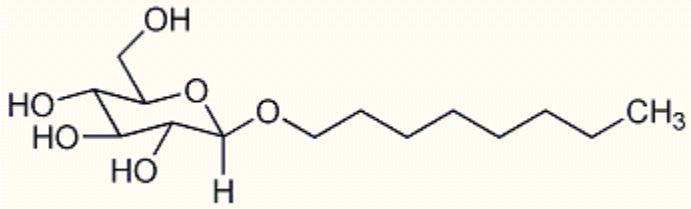
|---|---|
| **Reference**: | UP263700, 1 g<br>UP263701, 5 g |
| **Chemical name**: | n-Octyl-β-D-Glucopyranoside (OG) |
| **Structure :** | $C_{14}H_{28}O_6$ |
| **CAS :** | 29836-26-8 |
| **Molecular Weight** : | 292.38 |




| **Test** | **Specification** – typical values |
|---|---|
| **Appearance**: | White to Off-White Powder |
| **Purity** | (HPLC)>99% |
| **Absorbance**<br>(Solvent : D.I. water, Concen. 1%) | 340 nm <0.01<br>280 nm <0.01<br>260 nm <0.015<br>225 nm <0.04 |
| **Percent Alpha** | <0.6% |
| **Percent Alcohol** | <0.006% |
| **% Fluorescence due to detergent**<br>(exc. 280 nm/em. 345 nm of a solution at 0.1% in H2O+0.01%BSA) | 0.2% |
| **pH** (1% water, 20°C) | 6.8 |
| **Solubility in water /** Solubilité dans l'eau | >20% |
| **Conductance (10% solution)** | <18µS |

## Technical and Scientific information

n-Octyl-β-D-Glucopyranoside (OG) is biological non-ionic detergent (neutral) widely utilized for solubilizing membrane bound proteins in their native state (used typically at 1%).

OG has been used at 100mM to incorporate Tissue factor (TF, Thromboplastin) into phoppholipid vesicles ("relipidation") [r].

OG is used also in crystallography [r], in Mass Spectrometry (0.1%, improves Trypsin digestion)[r].

OG removal can be achieved eaasily by dialysis because of the low CMC (20-25mM). Use a MWCO preferably above the OG micelles size (~25kD), even OG single molecule diffuse out from large micelle at smaller cut-off.

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## Related products and documents

Other detergents: see BioSciences catalogue
NT-Protein Extration

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