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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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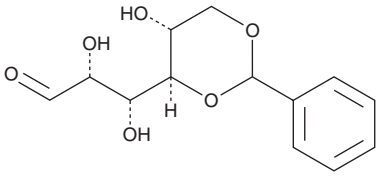
PRODUCT INFORMATION

4,6-O-Benzylidene-D-glucose

Item No. 18894

CAS Registry No.:	30688-66-5
Formal Name:	4,6-O-(phenylmethylene)-D-glucose
Synonym:	4,6-O-Benzylidene-D-glucopyranose
MF:	$C_{13}H_{16}O_6$
FW:	268.3
Purity:	≥95%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 4,6-O-benzylidene-D-glucose be stored as supplied at -20°C. It should be stable for at least two years.

4,6-O-Benzylidene-D-glucose is supplied as a crystalline solid. A stock solution may be made by dissolving the 4,6-O-benzylidene-D-glucose in the solvent of choice. 4,6-O-Benzylidene-D-glucose is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 4,6-O-benzylidene-D-glucose in ethanol and DMF is approximately 25 mg/ml, and approximately 14 mg/ml in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 4,6-O-benzylidene-D-glucose can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 4,6-O-benzylidene-D-glucose in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

4,6-O-Benzylidene-D-glucose is a useful intermediate for the synthesis of carbohydrates.[1]

Reference

1. Adibekian, A., Timmer, M.S.M., Stallforth, P., *et al.* Stereocontrolled synthesis of fully functionalized D-glucosamine monosaccharides *via* a domino nitro-Michael/Henry reaction. *Chem. Commun.* **30**, 3549-3551 (2008).

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