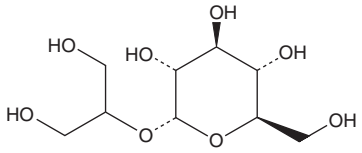
PRODUCT INFORMATION

2-O-(α-D-Glucopyranosyl)glycerol

Item No. 34492

CAS Registry No.:	22160-26-5
Formal Name:	α-D-glucopyranoside, 2-hydroxy-1-(hydroxymethyl)ethyl
Synonyms:	Glucosylglycerol, Glycoin
MF:	$C_9H_{18}O_8$
FW:	254.2
Purity:	≥95%
Supplied as:	A solution in water
Storage:	-20°C
Stability:	≥2 years
Item Origin:	Natural sucrose and glycerine



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

2-O-(α-D-Glucopyranosyl)glycerol is supplied as a solution in water. To change the solvent, simply evaporate the water under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 2-O-(α-D-glucopyranosyl)glycerol in these solvents is approximately 30 mg/ml.

Description

2-O-(α-D-Glucopyranosyl)glycerol is a compatible solute that has been found in various bacteria.[1,2] It prevents drying-induced membrane fusion and carboxyfluorescein (CF) leakage in liposomes.[2] 2-O-(α-D-Glucopyranosyl)glycerol levels are increased in response to osmotic stress in bacteria.[1]

References

1. Pocard, J.A., Smith, L.T., Smith, G.M., *et al.* A prominent role for glucosylglycerol in the adaptation of *Pseudomonas mendocina* SKB70 to osmotic stress. *J. Bacteriol.* **176(22)**, 6877-6884 (1994).
2. Hincha, D.K. and Hagemann, M. Stabilization of model membranes during drying by compatible solutes involved in the stress tolerance of plants and microorganisms. *Biochem. J.* **383(Pt 2)**, 277-283 (2004).

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