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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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

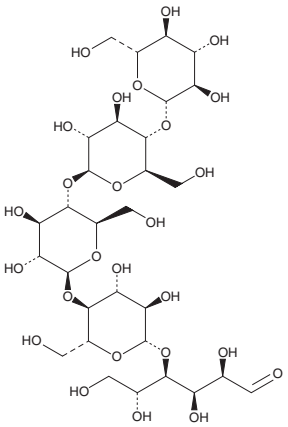
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

D-(+)-Cellopentaose

Item No. 35300



CAS Registry No.:	2240-27-9
Formal Name:	O-β-D-glucopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→4)-O-β-D-glucopyranosyl-(1→4)-D-glucose
Synonym:	β-D-Cellopentaose
MF:	$C_{30}H_{52}O_{26}$
FW:	828.7
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

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

Laboratory Procedures

D-(+)-Cellopentaose is supplied as a solid. A stock solution may be made by dissolving the D-(+)-Cellopentaose in the solvent of choice, which should be purged with an inert gas.

D-(+)-Cellopentaose is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

D-(+)-Cellopentaose is an oligosaccharide derived from cellulose.[1] It has been used as a synthetic acceptor co-substrate to characterize the binding domains and enzyme kinetics of the *E. coli* pEtN transferase BcsG found in *E. coli* biofilms.[2] D-(+)-Cellopentaose has also been used as a substrate for a synthetic receptor designed to solubilize polysaccharides for use in tissue engineering and biological applications.[3]

References

1. Wolfrom, M.L. and Dacons, J.C. The polymer-homologous series of oligosaccharides from cellulose. *J. AM. Chem. Soc.* **74(21)**, 5331-5333 (1952).
2. Anderson, A.C., Burnett, A.J.N., Constable, S., *et al*. A mechanistic basis for phosphoethanolamine modification of the cellulose biofilm matrix in *Escherichia coli*. *Biochemistry* **60(47)**, 3659-3669 (2021).
3. Mooibroek, T.J., Casas-Solvas, J.M., Harniman, R.L., *et al*. A threading receptor for polysaccharides. *Nat. Chem.* **8(1)**, 69-74 (2016).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM