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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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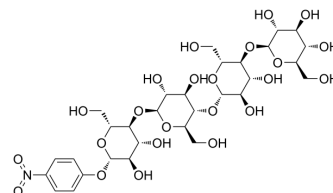
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4-Nitrophenyl β -D-cellobiotetraoside

Cat. No.:	HY-138111
CAS No.:	129411-62-7
Molecular Formula:	C ₃₀ H ₄₅ NO ₂₃
Molecular Weight:	787.67
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl β -D-cellobiotetraoside (p-Nitrophenyl β -D-cellobiotetraoside) is a small molecule cellulose mimetic consisting of a tetramer of D-glucose units linked by β -1-4 glycosidic bonds. The fragmentation pattern of 4-Nitrophenyl β -D-cellobiotetraoside after enzymatic hydrolysis can be analyzed by TLC or by the release of 4-nitrophenol, which has a strong absorbance at 395 nm in alkaline solutions. 4-Nitrophenyl β -D-cellobiotetraoside can be used in cellulose degradation studies to determine the specificity of cellulases^[1].

REFERENCES

[1]. Hakamada Y, et al. Enzymatic properties, crystallization, and deduced amino acid sequence of an alkaline endoglucanase from *Bacillus circulans*[J]. *Biochimica et Biophysica Acta (BBA)-General Subjects*, 2002, 1570(3): 174-180.

Caution: Product has not been fully validated for medical applications. For research use only.

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