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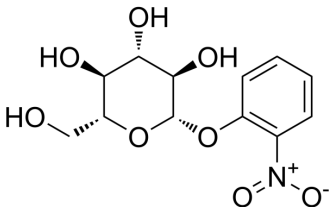
2-Nitrophenyl β-D-glucopyranoside

Cat. No.:	HY-W013254
CAS No.:	2816-24-2
Molecular Formula:	$C_{12}H_{15}NO_8$
Molecular Weight:	301.25
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Nitrophenyl β-D-glucopyranoside is a substrate for β-glucosidase. 2-Nitrophenyl β-D-glucopyranoside can be used to test β-glucosidase activity[1][2].
In Vitro	Purified β-glucosidase from Cellulomonas biazotea has an apparent K_m and V for 2-Nitrophenyl β-D-glucopyranoside of 0.416 mM and 0.22 U/mg protein, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Siddiqui KS, et, al. Kinetic analysis of the active site of an intracellular beta-glucosidase fromCellulomonas biazotea. Folia Microbiol (Praha). 1997 Feb;42(1):53-8.

[2]. Nong H, et, al. Characterization of a novel β-thioglucosidase CpTGG1 in Carica papaya and its substrate-dependent and ascorbic acid-independent O-β-glucosidase activity. J Integr Plant Biol. 2010 Oct;52(10):879-90.

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

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