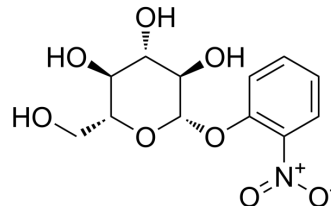


2-Nitrophenyl β -D-glucopyranoside

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 <i>Cellulomonas biazotea</i> 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 from *Cellulomonas 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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