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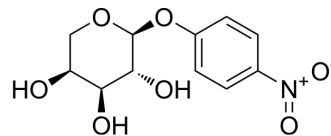
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p-Nitrophenyl α-L-arabinopyranoside

Cat. No.:	HY-134429
CAS No.:	1223-07-0
Molecular Formula:	C ₁₁ H ₁₃ NO ₇
Molecular Weight:	271.22
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	p-Nitrophenyl α-L-arabinopyranoside is a biochemical reagent. p-Nitrophenyl α-L-arabinopyranoside can be hydrolyzed by recombinant BgaA (rBgaA, isolated from <i>E. coli</i> BL21 (DE3) strain harboring pEBGA29). p-Nitrophenyl α-L-arabinopyranoside has potential application in enzyme activity detection ^{[1][3]} .
In Vitro	<p>The affinity K_m value of p-Nitrophenyl α-L-arabinopyranoside with rBgaA is 6.06 mM^[1]. p-Nitrophenyl α-L-arabinopyranoside shows high activity to xylosidase–arabinosidase (<i>xarB</i>) gene^[2]. Application of p-Nitrophenyl α-L-arabinopyranoside in the detection of enzyme activity^[3]</p> <p>(1) 200 μL 2 mM p-Nitrophenyl α-L-arabinopyranoside, 100 μL enzyme, 300 μL 50 mM phosphate buffer (pH 7.0) were incubated at 37°C for 0.5, 1, and 5 h.</p> <p>(2) 400 μL 0.5 M NaOH was added to terminate the reaction.</p> <p>(3) Measure the absorbance of the mixture at 405 nm.</p> <p>Note: In the presence of ginsenosides, the reaction was terminated by extraction with butanol.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Kosugi A, et al. Characterization of two noncellulosomal subunits, ArfA and BgaA, from *Clostridium cellulovorans* that cooperate with the cellulosome in plant cell wall degradation. *J Bacteriol.* 2002 Dec;184(24):6859-65.
- [2]. Mai V, et al. Cloning, sequencing, and characterization of the bifunctional xylosidase–arabinosidase from the anaerobic thermophile *thermoanaerobacter ethanolicus*. *Gene.* 2000 Apr 18;247(1-2):137-43.
- [3]. Shin H Y, et al. Purification and Characterization of α-L-Arabinopyranosidase and α-L-Arabinofuranosidase from *Bifidobacterium breve* K-110, a Human Intestinal Anaerobic Bacterium Metabolizing Ginsenoside Rb2 and Rc[J]. *Applied and environmental microbiology*, 2003, 69(12): 7116-7123.

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

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