4-Nitrophenyl β-D-xylopyranoside

Cat. No.: HY-W039938

CAS No.: 2001-96-9

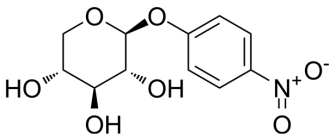
Molecular Formula: $C_{11}H_{13}NO_7$

Molecular Weight: 271.22

Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (368.70 mM; Need ultrasonic)
H_2O : 50 mg/mL (184.35 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6870 mL	18.4352 mL	36.8704 mL
	5 mM	0.7374 mL	3.6870 mL	7.3741 mL
	10 mM	0.3687 mL	1.8435 mL	3.6870 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.22 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl β-D-xylopyranoside is a chromogenic β-xylosidase substrate. 4-Nitrophenyl β-D-xylopyranoside can be used to test β-xylosidase activity[1].

In Vitro

β-D-xylan xylohydrolase exhibits glycosyltransferase activity with xylo-oligosaccharides and at high concentrations of 4-Nitrophenyl β-D-xylopyranoside[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Herrmann MC, et, al. The beta-D-xylosidase of Trichoderma reesei is a multifunctional beta-D-xylan xylohydrolase. Biochem J. 1997 Jan 15;321 (Pt 2)(Pt 2):375-81.

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