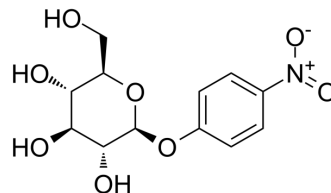


4-Nitrophenyl β -D-glucopyranoside

Cat. No.:	HY-15927
CAS No.:	2492-87-7
Molecular Formula:	C ₁₂ H ₁₅ NO ₈
Molecular Weight:	301.25
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : \geq 48 mg/mL (159.34 mM)
 H₂O : 10 mg/mL (33.20 mM; Need ultrasonic)
 * " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		3.3195 mL	16.5975 mL	33.1950 mL
	5 mM		0.6639 mL	3.3195 mL	6.6390 mL
	10 mM		0.3320 mL	1.6598 mL	3.3195 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 25 mg/mL (82.99 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: \geq 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 2.08 mg/mL (6.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl β -D-glucopyranoside is a chromogenic substrate for β -glucosidase. 4-Nitrophenyl β -D-glucopyranoside can be used to measure of β -glucosidase activity^[1].

CUSTOMER VALIDATION

- GCB Bioenergy. 2023 Mar 18.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Alhifhi A, et al. Unimolecular, Bimolecular, and Intramolecular Hydrolysis Mechanisms of 4-Nitrophenyl β -d-Glucopyranoside. J Org Chem. 2021 Jul 16;86(14):9530-9539.

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

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