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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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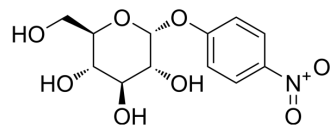
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4-Nitrophenyl α-D-glucopyranoside

Cat. No.:	HY-W011411		
CAS No.:	3767-28-0		
Molecular Formula:	C ₁₂ H ₁₅ NO ₈		
Molecular Weight:	301.25		
Target:	Glucosidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (165.98 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (8.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Nitrophenyl α-D-glucopyranoside is a chromogenic substrate for α-glucosidase. 4-Nitrophenyl α-D-glucopyranoside can be used to measure of α-glucosidase activity^{[1][2]}.

In Vitro

4-Nitrophenyl α-D-glucopyranoside releases p-nitrophenol by enzymatic cleavage. p-nitrophenol can be quantified by colorimetric detection at 405 nm^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zeng L, et, al. Inhibitory mechanism of morin on α -glucosidase and its anti-glycation properties. Food Funct. 2016 Sep 14;7(9):3953-63.
- [2]. Binder TP, et, al. p-Nitrophenyl alpha-D-glucopyranoside, a new substrate for glucansucrases. Carbohydr Res. 1983 Dec 23;124(2):287-99.
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Caution: Product has not been fully validated for medical applications. For research use only.

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