## 4-Methylumbelliferyl β-D-Glucopyranoside

Cat. No.:	HY-123633				
CAS No.:	18997-57-4				
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> O <sub>8</sub>				
Molecular Weight:	338.31				
Target:	Glucosidas	e			
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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## **SOLVENT & SOLUBILITY**

DMSO : 100 mg/mL DMF : 50 mg/mL (14	(295.59 mM; Need ultrasonic) .7.79 mM; Need ultrasonic)			
	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9559 mL	14.7793 mL	29.5587 mL
Stock Solutions	5 mM	0.5912 mL	2.9559 mL	5.9117 mL
	10 mM	0.2956 mL	1.4779 mL	2.9559 mL
Please refer to the so	solubility information to select the ap	propriate solvent.	1	

BIOLOGICAL ACTIV	
Description	4-Methylumbelliferyl β-D-Glucopyranoside, a β-D-glucoside, is a fluorogenic substrate for β-glucosidase, utilizes to assay [ glucosidase activity <sup>[1]</sup> . 4-Methylumbelliferyl β-D-Glucopyranoside releases the highly fluorescent 4-methylumbelliferyl (4- MU), which has an emission maximum at 445-454 nm. The excitation maximum for 4-MU is pH-dependent: 330, 370, and 3 nm at pH 4.6, 7.4, and 10.4, respectively <sup>[2]</sup> .
IC <sub>50</sub> & Target	4-Methylumbelliferyl $\beta$ -D-Glucopyranoside is a fluorogenic substrate for $\beta$ -glucosidase <sup>[1]</sup> .

## REFERENCES

[1]. Smitka CM, et al. Rapid fluorogenic assay for differentiation of the Candida parapsilosis group from other Candida spp. J Clin Microbiol. 1989;27(1):203-206.

[2]. Oftedal L, et al. Validation and assessment of preanalytical factors of a fluorometric in vitro assay for glucocerebrosidase activity in human cerebrospinal fluid. Sci Rep.

**Product** Data Sheet

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

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