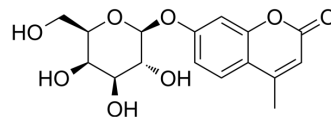


4-Methylumbelliferyl β -D-galactopyranoside

Cat. No.:	HY-137845
CAS No.:	6160-78-7
Molecular Formula:	C ₁₆ H ₁₈ O ₈
Molecular Weight:	338.31
Target:	Fluorescent Dye
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 : 41.67 mg/mL (123.17 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9559 mL	14.7793 mL	29.5587 mL
		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 solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.08 mg/mL (6.15 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.08 mg/mL (6.15 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	4-Methylumbelliferyl β -D-galactopyranoside is a fluorescent substrate for β -galactosidase which, when cleaved, produces a water-soluble blue fluorescent coumarin fluorophore that can be detected using a fluoroenzymeter or fluorometer ^[1] .
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REFERENCES

[1]. Berg JD, et al. Rapid detection of total and fecal coliforms in water by enzymatic hydrolysis of 4-methylumbelliferone-beta-D-galactoside. Appl Environ Microbiol. 1988 Aug;54(8):2118-22.

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

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