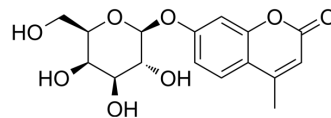


## 4-Methylumbelliferyl $\beta$ -D-galactopyranoside

Cat. No.:	HY-137845
CAS No.:	6160-78-7
Molecular Formula:	C <sub>16</sub> H <sub>18</sub> O <sub>8</sub>
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 Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -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  $\beta$ -D-galactopyranoside is a fluorescent substrate for  $\beta$ -galactosidase which, when cleaved, produces a water-soluble blue fluorescent coumarin fluorophore that can be detected using a fluoroenzymometer or fluorometer<sup>[1]</sup>.

### 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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