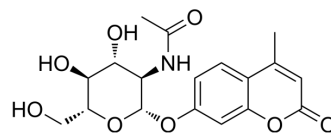


## 4-Methylumbelliferyl-2-acetamido-2-deoxy-β-D-Glucopyranoside

<b>Cat. No.:</b>	HY-137853
<b>CAS No.:</b>	37067-30-4
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>21</sub> NO <sub>8</sub>
<b>Molecular Weight:</b>	379.36
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (131.80 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.6360 mL	13.1801 mL	26.3602 mL
		5 mM	0.5272 mL	2.6360 mL	5.2720 mL
	10 mM	0.2636 mL	1.3180 mL	2.6360 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Methylumbelliferyl-2-acetamido-2-deoxy-β-D-Glucopyranoside is a fluorogenic substrate for N-acetyl-β-D-glucosaminidase <sup>[1]</sup> .
<b>In Vitro</b>	The enzyme functionality is assessed by its ability remove terminal β-glycosidically bound N-acetylglucosamine and N-acetylgalactosamine residues from 4-Methylumbelliferyl-2-acetamido-2-deoxy-β-D-Glucopyranoside <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA