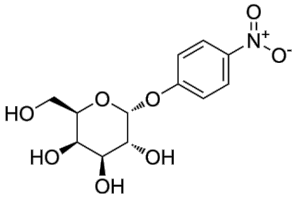


# 4-Nitrophenyl $\alpha$ -D-galactopyranoside

货号: **AYB26921**



## 产品信息

生物活性	4-Nitrophenyl $\alpha$ -D-galactopyranoside (PNP- $\alpha$ -D-Gal) is an artificial substrate of 4-nitrophenyl (pNP) glycopyranoside for detecting $\alpha$ -galactosidase activity. The amount of released pNP is significantly increased when 4-Nitrophenyl $\alpha$ -D-galactopyranoside is used as substrates.
CAS	7493-95-0
中文名称	4-硝基苯基 $\alpha$ -D-吡喃半乳糖苷
分子量	301.25
体外研究	<p>Using 4-nitrophenol (pNP)-glycopyranosides as pseudosubstrates, the amount of liberated pNP from the 4-Nitrophenyl <math>\alpha</math>-D-galactopyranoside is significantly higher than that from the other pNP-glycopyranosides at pH 4.0 whereas no activity was detected at pH 7.0.</p> <p>The digestion assays using 4-nitrophenyl (pNP) glycopyranosides as artificial substrates shows that yield in liberated galactose residues from 4-Nitrophenyl <math>\alpha</math>-D-galactopyranoside mainly at pH 4.0, i.e. the pH level where yield threshold is decreased at most.</p> <p><b>The accuracy of these methods have not been independently confirmed. They are for reference only.</b></p>
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	

<p>溶解性</p>	<p>In Vitro:  <b>H<sub>2</sub>O : 16.67 mg/mL (55.34 mM);</b> ultrasonic and warming and heat to 60°C)</p> <p>配制储备液</p> <table border="1"> <thead> <tr> <th>浓度</th> <th>溶剂</th> <th>体积</th> <th>质量</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.3195 mL</td> <td>16.5975 mL</td> <td>33.1950 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6639 mL</td> <td>3.3195 mL</td> <td>6.6390 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3320 mL</td> <td>1.6598 mL</td> <td>3.3195 mL</td> </tr> </tbody> </table> <p>*</p> <p>请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。</p> <p>In Vivo:      请根据您的<a href="#">实验动物和给药方式</a>选择适当的溶解方案。以下溶解方案都请先按照 <b>In Vitro</b> 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用；以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶</p> <ul style="list-style-type: none"> <li>1. 请依序添加每种溶剂： PBS</li> </ul> <p>Solubility: 25 mg/mL (82.99 mM); Clear solution; Need ultrasonic</p> <p>*以上所有助溶剂都可在 <a href="#">MCE</a> 网站选购。</p>	浓度	溶剂	体积	质量	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
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<p>纯度</p>	<p>98.53%</p>																