# Specification Sheet

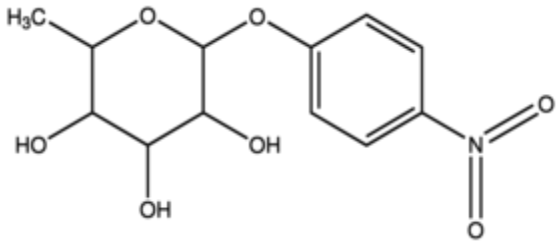
**N7763** Sigma-Aldrich

# 4-Nitrophenyl α-L-rhamnopyranoside

**powder**

Synonym: ***p*-Nitrophenyl 6-deoxy-α-L-mannopyranoside**

- **CAS Number** 18918-31-5
- **Empirical Formula (Hill Notation)** $C_{12}H_{15}NO_7$
- **Molecular Weight** 285.25
- **MDL number** MFCD00069788
- **PubChem Substance ID** 24897838
- **NACRES** NA.32




| SKU-Pack Size | Availability | Pack Size | Price (SGD) | Quantity |
|---|---|---|---|---|
| N7763-100MG | Available to ship on 14.04.2021 - FROM | 100 mg | 173.51 | 0 |
| N7763-500MG | Estimated to ship on 05.05.2021 - FROM | 500 mg | 688.82 | 0 |

## Properties

| | |
|---|---|
| Related Categories | Activity, Biochemicals and Reagents, Chromogenic, Enzyme Substrates, Enzymes, Inhibitors, and Substrates, |
| Quality Level | 200 |
| assay | **≥98% (TLC)** |
| form | **powder** |
| solubility | **ethanol: soluble 49.00-51.00 mg/mL** |
| storage temp. | **−20°C** |

| | |
|---|---|
| SMILES string | **CC1OC(Oc2ccc(cc2)N(=O)=O)C(O)C(O)C1O** |
| InChI | **1S/C12H15NO7/c1-6-9(14)10(15)11(16)12(19-6)20-8-4-2-7(3-5-8)13(17)18/h2-6,9-12,14-16H,1H3** |
| InChI key | **YILIDCGSXCGACV-UHFFFAOYSA-N** |

Show Fewer Properties

# Description

*Application*

4-Nitrophenyl α-L-rhamnopyranoside has been used as a substrate to determine β-glucosidase activity.[2] It has also been used as a substrate to measure α-L-rhamnosidase activity of *Oenococcus oeni*[3] and *Aspergillus terreus*.[4]

*Packaging*

100, 500 mg in poly bottle

*Biochem/physiol Actions*

4-Nitrophenyl α-L-rhamnopyranoside is a substrate for determining α-L-rhamnosidase activity. The hydrolysis of 4-Nitrophenyl α-L-rhamnopyranoside by the enzyme yields 4-nitrophenol, measured at 405 nm spectrophotometrically.[1]

*Substrates*

Chromogenic substrate for naringinase.