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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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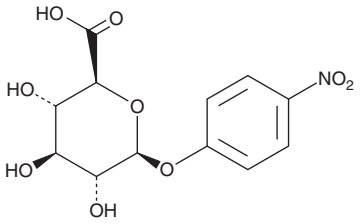
PRODUCT INFORMATION

4-Nitrophenyl β-D-Glucuronide

Item No. 38756

CAS Registry No.: 10344-94-2
Formal Name: 4-nitrophenyl β-D-glucopyranosiduronic acid
MF: $C_{12}H_{13}NO_9$
FW: 315.2
Purity: ≥98%
UV/Vis.: λ_{max}: 220, 296 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4-Nitrophenyl β-D-glucuronide is supplied as a solid. A stock solution may be made by dissolving the 4-nitrophenyl β-D-glucuronide in the solvent of choice, which should be purged with an inert gas. 4-Nitrophenyl β-D-glucuronide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF)). The solubility of 4-nitrophenyl β-D-glucuronide in ethanol and DMSO is approximately 10 mg/ml and approximately 20 mg/ml in DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 4-nitrophenyl β-D-glucuronide can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 4-nitrophenyl β-D-glucuronide in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

4-Nitrophenyl β-D-glucuronide is a colorimetric substrate for β-glucuronidase.[1] Upon enzymatic cleavage, *p*-nitrophenol is released, which can be quantified by colorimetric detection at 405 nm as a measure of β-glucuronidase activity.

Reference

1. Sadat Ebrahimi M.-M., Voss, Y., and Schönherr, H. Rapid detection of *Escherichia coli* via enzymatically triggered reactions in self-reporting chitosan hydrogels. *ACS Appl. Mater. Interfaces* **7(36)**, 20190-20199 (2015).

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