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Produktinformation



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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



N-acetyl-D-Lactosamine

Item No. 21043

CAS Registry No.: 32181-59-2
Formal Name: 2-(acetylamino)-2-deoxy-4-O-β-D-galactopyranosyl-D-glucose

Synonym: LacNAc
MF: C₁₄H₂₅NO₁₁

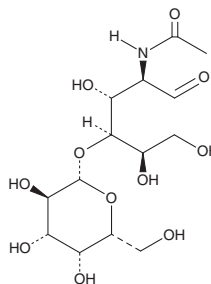
FW: 383.4

Purity: ≥95%

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

N-acetyl-D-Lactosamine is supplied as a crystalline solid. A stock solution may be made by dissolving the N-acetyl-D-lactosamine in the solvent of choice. N-acetyl-D-Lactosamine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. N-acetyl-D-lactosamine is sparingly soluble in ethanol. The solubility of N-acetyl-D-lactosamine in DMSO and DMF is approximately 30 and 0.5 mg/ml, respectively.

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 N-acetyl-D-lactosamine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-acetyl-D-lactosamine in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

N-acetyl-D-Lactosamine is a disaccharide consisting of galactose and N-acetylglucose. It occurs naturally as a structural element in a variety of glycoconjugates.¹ N-acetyl-D-Lactosamine is used to characterize lectins.²

References

1. Kiwamoto, T., Brummet, M.E., Wu, F., *et al.* Mice deficient in the St3gal3 gene product α2,3 sialyltransferase (ST3Gal-III) exhibit enhanced allergic eosinophilic airway inflammation. *J. Allergy Clin. Immunol.* **133**(1), 240-247 (2014).
2. Kaus, K., Lary, J.W., Cole, J.L., *et al.* Glycan specificity of the *Vibrio vulnificus* hemolysin lectin outlines evolutionary history of membrane targeting by a toxin family. *J. Mol. Biol.* **426**(15), 2800-2812 (2014).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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