



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

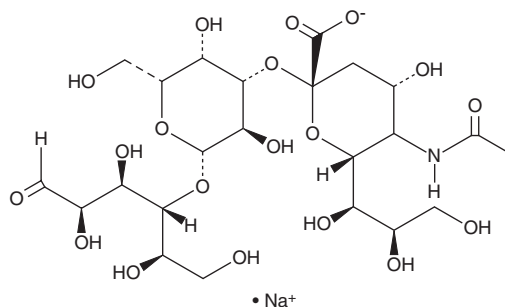
PRODUCT INFORMATION



3'-Sialyllactose (sodium salt)

Item No. 16617

CAS Registry No.: 128596-80-5
Formal Name: O-(N-acetyl- α -neuraminosyl)-(2 \rightarrow 3)-
O- β -D-galactopyranosyl-(1 \rightarrow 4)-D-
glucose, monosodium salt
Synonym: 3'-N-Acetylneuraminyl-D-lactose
MF: C₂₃H₃₈NO₁₉ • Na
FW: 655.5
Purity: \geq 98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: \geq 2 years
Item Origin: Animal/Bovine lactose



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

Laboratory Procedures

3'-Sialyllactose (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 3'-sialyllactose (sodium salt) in the solvent of choice. 3'-Sialyllactose (sodium salt) is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 5 mg/ml.

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 3'-sialyllactose (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3'-sialyllactose (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

3'-Sialyllactose consists of the monosaccharide N-acetylneuraminic acid linked to the galactosyl subunit of lactose at the 3 position. It is an abundant oligosaccharide in the milk of many mammals, including cows and humans, particularly postpartum.^{1,2} 3'-Sialyllactose avidly binds several viral strains, including strains of influenza, HIV-1, reovirus, and polyomavirus.³⁻⁶ In some cases, binding of 3'-sialyllactose to viral proteins alters viral infectivity.³⁻⁵ 3'-Sialyllactose also alters *Helicobacter* activity and impacts bacterial colonization of gut.^{7,8}

References

1. Duncan, P.I., Raymond, F., Fuerholz, A., et al. *PLoS One* **4**(12), 1-10 (2009).
2. Sprenger, N. and Duncan, P.I. *Adv. Nutr.* **3**(3), 392S-397S (2012).
3. Wu, W. and Air, G.M. *Virology* **325**(2), 340-350 (2004).
4. Rosa Borges, A., Wieczorek, L., Johnson, B., et al. *Virology* **408**(1), 80-88 (2010).
5. Iskarpatyoti, J.A., Morse, E.A., McClung, R.P., et al. *Virology* **433**(2), 489-497 (2012).
6. Neu, U., Khan, Z.M., Schuch, B., et al. *PLoS Pathog.* **9**(10), 1-10 (2013).
7. Simon, P.M., Goode, P.L., Mobasser, A., et al. *Infect. Immun.* **65**(2), 750-757 (1997).
8. Weiss, G.A. and Hennet, T. *Adv. Nutr.* **3**(3), 483S-488S (2012).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 02/18/2020

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM