



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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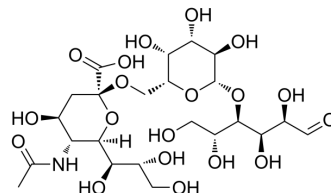
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6'-Sialyllactose

| | |
|---------------------------|--|
| Cat. No.: | HY-N10521 |
| CAS No.: | 35890-39-2 |
| Molecular Formula: | C ₂₃ H ₃₉ NO ₁₉ |
| Molecular Weight: | 633.55 |
| Target: | Toll-like Receptor (TLR) |
| Pathway: | Immunology/Inflammation |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 50 mg/mL (78.92 mM)
* "≥" means soluble, but saturation unknown.

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 1.5784 mL | 7.8920 mL | 15.7841 mL |
| | 5 mM | 0.3157 mL | 1.5784 mL | 3.1568 mL |
| | 10 mM | 0.1578 mL | 0.7892 mL | 1.5784 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

6'-Sialyllactose is a sialylated human milk oligosaccharide that can promote the proliferation of bifidobacteria and shaping the gut microbiota. 6'-Sialyllactose also inhibits toll-like receptor 4 signaling and protects against the development of necrotizing enterocolitis^{[1][2]}.

In Vitro

6'-Sialyllactose (10 mg/mL; supplementation of infant formula) prevent necrotizing enterocolitis (NEC) in mice in a dose-dependent manner^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sodhi CP, et, al. The human milk oligosaccharides 2'-fucosyllactose and 6'-sialyllactose protect against the development of necrotizing enterocolitis by inhibiting toll-like receptor 4 signaling. *Pediatr Res.* 2021 Jan;89(1):91-101.

[2]. Zhu Y, et, al. Recent progress on health effects and biosynthesis of two key sialylated human milk oligosaccharides, 3'-sialyllactose and 6'-sialyllactose. *Biotechnol Adv.*

Caution: Product has not been fully validated for medical applications. For research use only.

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