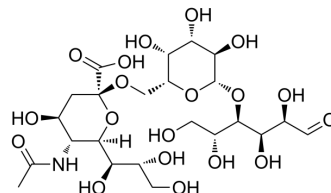


6'-Sialyllactose

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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