

Product Data Sheet

Product Name: 6'-Sialyllactose
Cat. No.: GC68576

Chemical Properties

Cas. No. 35890-39-2

Formula $C_{23}H_{39}NO_{19}$ M.Wt 633.55

Solubility $H_2O : \geq 50 \text{ mg/mL (78.92 mM)}$ Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure

Background

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

6'-Sialyllactose (10 mg/mL;) (NEC)^[1]

[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.* 2023 Jan-Feb;62:108058.

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