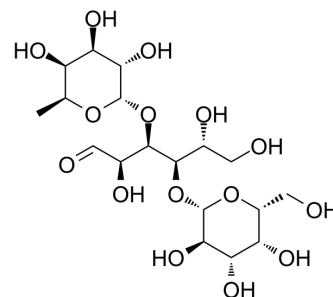


3-Fucosyllactose

Cat. No.:	HY-N10528
CAS No.:	41312-47-4
Molecular Formula:	C ₁₈ H ₃₂ O ₁₅
Molecular Weight:	488.44
Target:	Bacterial; Enterovirus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro H₂O : 125 mg/mL (255.92 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0473 mL	10.2367 mL	20.4733 mL
	5 mM		0.4095 mL	2.0473 mL	4.0947 mL
	10 mM		0.2047 mL	1.0237 mL	2.0473 mL

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

BIOLOGICAL ACTIVITY

Description 3-Fucosyllactose (3-Fucosyl-D-lactose) is one of the major fucosylated oligosaccharides found in human breast milk. 3-Fucosyllactose shows prebiotic, immunomodulator, neonatal brain development, and antimicrobial function^[1].

In Vitro 3-Fucosyllactose (3-Fucosyl-D-lactose) (10 mg/mL) can inhibit the adhesion of enteric and respiratory pathogens to the human epithelial cell lines Caco-2 and A549^[2].

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

REFERENCES

[1]. Choi YH, et al. Biosynthesis of the human milk oligosaccharide 3-fucosyllactose in metabolically engineered *Escherichia coli* via the salvage pathway through increasing GTP synthesis and β -galactosidase modification. *Biotechnol Bioeng.* 2019 Dec;116(12):3324-3332.

[2]. Weichert S, et al. Bioengineered 2'-fucosyllactose and 3-fucosyllactose inhibit the adhesion of *Pseudomonas aeruginosa* and enteric pathogens to human intestinal and respiratory cell lines. *Nutr Res.* 2013 Oct;33(10):831-8.

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

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