

Fructo-oligosaccharide DP12/GF11

Chemical Properties

CAS No. :	137405-40-4
Formula:	C72H122O61
Molecular Weight:	1963.71
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Fructo-oligosaccharide DP12/GF11 is a fructooligosaccharide (FOS) with a high degree of polymerization of 12. It consists of 11 fructose units linearly linked via $\beta(2\rightarrow1)$ glycosidic bonds, with a glucose residue at the terminal end of the molecule. It can be selectively fermented by beneficial gut bacteria, thereby influencing the composition and metabolic function of the intestinal microecology.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 80.00 mg/mL (40.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5092 mL	2.5462 mL	5.0924 mL
5 mM	0.1018 mL	0.5092 mL	1.0185 mL
10 mM	0.0509 mL	0.2546 mL	0.5092 mL
50 mM	0.0102 mL	0.0509 mL	0.1018 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Martins GN, et al. Technological Aspects of the Production of Fructo and Galacto-Oligosaccharides. Enzymatic Synthesis and Hydrolysis. Front Nutr. 2019 May 31;6:78.

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