

Product Data Sheet

Product Name: 1-Kestose

Cat. No.: GC32294

Chemical Properties

Cas. No. 470-69-9

SMILES OC[C@]1(O[C@H](CO)[C@@H](O)[C@@H]1O)OC[C@]2(O[C@H](CO)[C@@H](O)[C@@H]2O)O[C@H]3O[C@@H]([C@@H](O)[C@H](O)[C@H]3O)CO

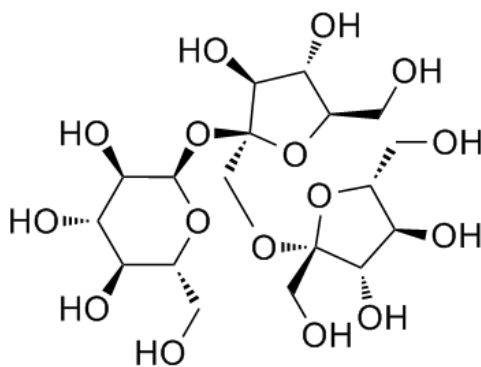
Formula $C_{18}H_{32}O_{16}$ M.Wt 504.44

Solubility Water: 100 mg/mL (198.24 mM); Storage -20°C, protect from light
DMSO: 100 mg/mL (198.24 mM)

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 size: ship with RT, or blue ice upon request.

Structure



Background

1-Kestose, the smallest fructooligosaccharide component, which efficiently stimulates *Faecalibacterium prausnitzii* as well as *Bifidobacteria*.

Faecalibacterium prausnitzii is anti-inflammatory commensal bacterium identified by gut microbiota analysis of Crohn disease. *Bifidobacteria* exerts a beneficial effect on atopic dermatitis (AD)[1].

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

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[1]. Tochio T, et al. 1-Kestose, the Smallest Fructooligosaccharide Component, Which Efficiently Stimulates *Faecalibacterium prausnitzii* as Well as Bifidobacteria in Humans. *Foods*. 2018 Sep 1;7(9). pii: E140.

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