



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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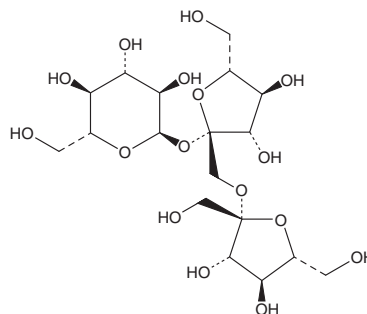
# PRODUCT INFORMATION



## 1-Kestose

Item No. 34346

**CAS Registry No.:** 470-69-9  
**Formal Name:** O-β-D-fructofuranosyl-(2→1)-β-D-fructofuranosyl α-D-glucopyranoside  
**MF:** C<sub>18</sub>H<sub>32</sub>O<sub>16</sub>  
**FW:** 504.4  
**Purity:** ≥95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Item Origin:** Natural/Source unknown



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

1-Kestose is supplied as a solid. Aqueous solutions of 1-kestose can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 1-kestose in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

1-Kestose is a fructooligosaccharide that has been found in onions and has prebiotic and antidiabetic activities.<sup>1-3</sup> It increases levels of the beneficial bacterium *B. longum* in diluted adult human fecal samples when added to culture broth at a concentration of 0.5% w/v.<sup>2</sup> Dietary supplementation with 1-kestose increases the proportion of cecal *Anaerostipes* and *Bifidobacterium* content, improves glucose tolerance, and prevents the development of type 2 diabetes in Otsuka Long-Evans Tokushima Fatty (OLETF) rats.<sup>3</sup>

### References

1. Tochio, T., Kadota, Y., Tanaka, T., *et al.* 1-Kestose, the smallest fructooligosaccharide component, which efficiently stimulates *Faecalibacterium prausnitzii* as well as bifidobacteria in humans. *Foods* **7(9)**, 140 (2018).
2. Endo, A., Hirano, K., Ose, R., *et al.* Impact of kestose supplementation on the healthy adult microbiota in *in vitro* fecal batch cultures. *Anaerobe* **61**, 102076 (2020).
3. Watanabe, A., Kadota, Y., Kamio, R., *et al.* 1-Kestose supplementation mitigates the progressive deterioration of glucose metabolism in type 2 diabetes OLETF rats. *Sci. Rep.* **10(1)**, 15674 (2020).

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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