

inulin fructotransferase (DFA-I-forming)

Cat. No. EXWM-5092

Lot. No. (See product label)

Introduction

Description

This enzyme, like EC 4.2.2.16 [levan fructotransferase (DFA-IV-forming)] and EC 4.2.2.18 [inulin fructotransferase (DFA-III-forming)] eliminates the fructan chain from the terminal disaccharide leaving a difructose dianhydride. These enzymes have long been known as fructotransferases, so this is retained in the accepted name. Since the transfer is intramolecular, the reaction is an elimination and, hence, the enzyme is a lyase, belonging in EC 4.

Synonyms

inulin fructotransferase (DFA-I-producing); inulin fructotransferase (depolymerizing, difructofuranose-1,2':2',1-dianhydride-forming); inulin D-fructosyl-D-fructosyltransferase (1,2':1',2-dianhydride-forming); inulin D-fructosyl-D-fructosyltransferase (forming α -D-fructofuranose β -D-fructofuranose 1,2':1',2-dianhydride); 2,1- β -D-fructan lyase (α -D-fructofuranose- β -D-fructofuranose-1,2':2,1'-dianhydride-forming)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.2.17

CAS No.

125008-19-7

Reaction

Produces α -D-fructofuranose β -D-fructofuranose 1,2':2,1'-dianhydride (DFA I) by successively eliminating the diminishing (2 \rightarrow 1)- β -D-fructan (inulin) chain from the terminal D-fructosyl-D-fructosyl disaccharide.

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.