

mannosylfructose-phosphate phosphatase

Cat. No. EXWM-3684

Lot. No. (See product label)

Introduction

Description

This enzyme, from the soil proteobacterium and plant pathogen *Agrobacterium tumefaciens* strain C58, requires Mg²⁺ for activity. Mannosylfructose is the major endogenous osmolyte produced by several α -proteobacteria in response to osmotic stress and is synthesized by the sequential action of EC 2.4.1.246 (mannosylfructose-phosphate synthase) followed by this enzyme. While mannosylfructose 6-phosphate is the physiological substrate, the enzyme can use sucrose 6-phosphate very efficiently. The F in mannosylfructose 6F-phosphate is used to indicate that the fructose residue of sucrose carries the substituent.

Synonyms

mannosylfructose-6-phosphate phosphatase; MFPP

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.1.3.79

Reaction

β -D-fructofuranosyl- α -D-mannopyranoside 6F-phosphate + H₂O = β -D-fructofuranosyl- α -D-mannopyranoside + phosphate

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.