Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.