

mannosylfructose-phosphate synthase

Cat. No. EXWM-2475

Lot. No. (See product label)

Introduction

Description This enzyme, from the soil proteobacterium and plant pathogen Agrobacterium

tumefaciens strain C58, requires Mg2+ or Mn2+ for activity. GDP-mannose can be replaced by ADP-mannose but with a concomitant decrease in activity. The product of this reaction is dephosphorylated by EC 3.1.3.79 (mannosylfructose-phosphate phosphatase) to form the non-reducing disaccharide mannosylfructose, which is the major endogenous osmolyte produced by several α -proteobacteria in response to osmotic stress. The F in the product name is used to indicate that the fructose

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residue of sucrose carries the substituent.

Synonyms mannosylfructose-6-phosphate synthase; MFPS

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.246

CAS No. 92480-04-1 (not distinguished from EC 2.4.1.167)

Reaction GDP-mannose + D-fructose 6-phosphate = GDP + β -D-fructofuranosyl- α -D-

mannopyranoside 6F-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

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

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