

## 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  $\alpha$ -proteobacteria in response to osmotic stress. The F in the product name is used to indicate that the fructose 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 +  $\beta$ -D-fructofuranosyl- $\alpha$ -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

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C $\sim$ -80 °C.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1