

## **GDP-mannose 4,6-dehydratase**

Cat. No. EXWM-5036

Lot. No. (See product label)

## Introduction

**Description** The bacterial enzyme requires bound NAD+. This enzyme forms the first step in the

biosynthesis of GDP- $\alpha$ -D-rhamnose and GDP- $\beta$ -L-fucose. In Aneurinibacillus

thermoaerophilus L420-91T, this enzyme acts as a bifunctional enzyme, catalysing  $\,$ 

the above reaction as well as the reaction catalysed by EC 1.1.1.281, GDP-4-

dehydro-6-deoxy-D-mannose reductase. Belongs to the short-chain

dehydrogenase/reductase enzyme family, having homologous structures and a

conserved catalytic triad of Lys, Tyr and Ser/Thr residues.

**Synonyms** guanosine 5'-diphosphate-D-mannose oxidoreductase; guanosine

diphosphomannose oxidoreductase; guanosine diphosphomannose 4,6-dehydratase; GDP-D-mannose dehydratase; GDP-D-mannose 4,6-dehydratase;

Gmd; GDP-mannose 4,6-hydro-lyase; GDP-mannose 4,6-hydro-lyase (GDP-4-

dehydro-6-deoxy-D-mannose-forming)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.1.47

*CAS No.* 37211-59-9

**Reaction** GDP- $\alpha$ -D-mannose = GDP-4-dehydro- $\alpha$ -D-rhamnose + H2O

**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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