

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

*Cat. No. EXWM-5036 Lot. No.* (See product label)

## Introduction

- DescriptionThe bacterial enzyme requires bound NAD+. This enzyme forms the first step in the biosynthesis of GDP-<br/>α-D-rhamnose and GDP-β-L-fucose. In Aneurinibacillus thermoaerophilus L420-91T, this enzyme acts as a<br/>bifunctional enzyme, catalysing the above reaction as well as the reaction catalysed by EC 1.1.1.281,<br/>GDP-4-dehydro-6-deoxy-D-mannose reductase. Belongs to the short-chain dehydrogenase/reductase<br/>enzyme family, having homologous structures and a conserved catalytic triad of Lys, Tyr and Ser/Thr<br/>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; 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

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