

## mannosyl-3-phosphoglycerate synthase

Cat. No. EXWM-2445

Lot. No. (See product label)

### Introduction

#### Description

Requires Mg<sup>2+</sup>. The enzyme is absolutely specific for GDPmannose and 3-phosphoglycerate, and transfers the mannosyl group with retention of configuration. In the hyperthermophilic archaeon *Pyrococcus horikoshii*, the mannosyl-3-phosphoglycerate formed is subsequently dephosphorylated by a specific phosphatase, EC 3.1.3.70 (mannosyl-3-phosphoglycerate phosphatase), producing mannosylglycerate.

#### Synonyms

MPG synthase; GDP-mannose:3-phosphoglycerate 3- $\alpha$ -D-mannosyltransferase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 2.4.1.217

#### CAS No.

393512-63-5

#### Reaction

GDP-mannose + 3-phospho-D-glycerate = GDP + 2-( $\alpha$ -D-mannosyl)-3-phosphoglycerate

#### 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.