

## GDP-Man:Man1GlcNAc2-PP-dolichol $\alpha$ -1,3-mannosyltransferase

Cat. No. EXWM-2357

Lot. No. (See product label)

### Introduction

**Description** The biosynthesis of asparagine-linked glycoproteins utilizes a dolichyl diphosphate-linked glycosyl donor, which is assembled by the series of membrane-bound glycosyltransferases that comprise the dolichol pathway. Alg2 mannosyltransferase from *Saccharomyces cerevisiae* carries out an  $\alpha$ 1,3-mannosylation of D-Man- $\beta$ -(1 $\rightarrow$ 4)-D-GlcNAc- $\beta$ -(1 $\rightarrow$ 4)-D-GlcNAc-diphosphodolichol, followed by an  $\alpha$ 1,6-mannosylation (cf. EC 2.4.1.257), to form the first branched pentasaccharide intermediate of the dolichol pathway.

**Synonyms** Alg2 mannosyltransferase (ambiguous); ALG2 (gene name, ambiguous); glycolipid 3- $\alpha$ -mannosyltransferase; GDP-mannose:glycolipid 3- $\alpha$ -D-mannosyltransferase; GDP-Man:Man1GlcNAc2-PP-Dol  $\alpha$ -1,3-mannosyltransferase; GDP-D-mannose:D-Man- $\beta$ -(1 $\rightarrow$ 4)-D-GlcNAc- $\beta$ -(1 $\rightarrow$ 4)-D-GlcNAc-diphosphodolichol 3- $\alpha$ -mannosyltransferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.4.1.132

**CAS No.** 81181-76-2

**Reaction** GDP- $\alpha$ -D-mannose +  $\beta$ -D-Man-(1 $\rightarrow$ 4)- $\beta$ -D-GlcNAc-(1 $\rightarrow$ 4)- $\alpha$ -D-GlcNAc-diphosphodolichol = GDP +  $\alpha$ -D-Man-(1 $\rightarrow$ 3)- $\beta$ -D-Man-(1 $\rightarrow$ 4)- $\beta$ -D-GlcNAc-(1 $\rightarrow$ 4)- $\alpha$ -D-GlcNAc-diphosphodolichol

**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.