## dolichyl-P-Man:Man8GIcNAc2-PP-dolichol $\alpha-1,2-$ mannosyltransferase

Cat. No. EXWM-2492
Lot. No. (See product label)

## Introduction

Description The formation of N -glycosidic linkages of glycoproteins involves the ordered assembly of the common Glc3Man9GIcNAc2 core-oligosaccharide on the lipid carrier dolichyl diphosphate. Early mannosylation steps occur on the cytoplasmic side of the endoplasmic reticulum with GDP-Man as donor, the final reactions from Man5GIcNAc2-PP-Dol to Man9GIc-NAc2-PP-Dol on the lumenal side use dolichyl $\beta$-Dmannosyl phosphate. ALG9 mannosyltransferase catalyses the addition of two different $\alpha-1,2$-mannose residues: the addition of $\alpha-1,2$-mannose to Man6GIcNAc2-PP-Dol (EC 2.4.1.259) and the addition of $\alpha-1,2$ mannose to Man8GIcNAc2-PP-Dol (EC 2.4.1.261).

Synonyms ALG9; ALG9 $\alpha 1,2$ mannosyltransferase; dolichylphosphomannose-dependent ALG9 mannosyltransferase; ALG9 mannosyltransferase; Dol-P-Man:Man8GIcNAc2-PP-Dol $\alpha-1,2$-mannosyltransferase; dolichyl $\beta$-Dmannosyl phosphate:D-Man- $\alpha-(1 \rightarrow 2)$-D-Man- $\alpha-(1 \rightarrow 2)$-D-Man- $\alpha-(1 \rightarrow 3)$-[D-Man- $\alpha-(1 \rightarrow 2)$-D-Man- $\alpha-(1 \rightarrow 3)$-[D-Man- $\alpha-(1 \rightarrow 6)]-D-M a n-\alpha-(1 \rightarrow 6)]-D-M a n-\beta-(1 \rightarrow 4)-D-G l c N A c-\beta-(1 \rightarrow 4)-D-G I c N A c-d i p h o s p h o d o l i c h o l ~ 2-\alpha-D-$ mannosyltransferase

## Product Information

| Form | Liquid or lyophilized powder |
| :---: | :---: |
| EC Number | EC 2.4.1.261 |
| Reaction | dolichyl $\beta$-D-mannosyl phosphate $+\alpha-D-M a n-(1 \rightarrow 2)-\alpha-D-M a n-(1 \rightarrow 2)-\alpha-D-M a n-(1 \rightarrow 3)-[\alpha-D-M a n-(1 \rightarrow 2)-\alpha-D-$ Man-( $1 \rightarrow 3$ )-[ $\alpha$-D-Man-( $1 \rightarrow 6$ )]- $\alpha-D-M a n-(1 \rightarrow 6)]-\beta-D-M a n-(1 \rightarrow 4)-\beta-D-G I c N A c-(1 \rightarrow 4)-\alpha-D-G I c N A c-$ diphosphodolichol $=\alpha-$ D-Man-(1 $\rightarrow 2$ )- $\alpha-D-M a n-(1 \rightarrow 2)-\alpha-D-M a n-(1 \rightarrow 3)-[\alpha-D-M a n-(1 \rightarrow 2)-\alpha-D-M a n-(1 \rightarrow 3)-[\alpha-D-$ Man-( $1 \rightarrow 2$ )- $\alpha$-D-Man-( $1 \rightarrow 6$ )]- $\alpha-D-M a n-(1 \rightarrow 6)]-\beta-D-M a n-(1 \rightarrow 4)-\beta-D-G I c N A c-(1 \rightarrow 4)-\alpha-D-G I c N A c-$ diphosphodolichol + dolichyl 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 $+4{ }^{\circ} \mathrm{C}$ for short term. For long term storage, store it at $-20^{\circ} \mathrm{C} \sim-80^{\circ} \mathrm{C}$.

