

dolichyl-P-Man:Man8GlcNAc2-PP-dolichol α -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 Glc3Man9GlcNAc2 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 Man5GlcNAc2-PP-Dol to Man9Glc-NAc2-PP-Dol on the lumenal side use dolichyl β -D-mannosyl phosphate. ALG9 mannosyltransferase catalyses the addition of two different α -1,2-mannose residues: the addition of α -1,2-mannose to Man6GlcNAc2-PP-Dol (EC 2.4.1.259) and the addition of α -1,2-mannose to Man8GlcNAc2-PP-Dol

(EC 2.4.1.261).

Synonyms ALG9; ALG9 α1,2 mannosyltransferase; dolichylphosphomannose-dependent ALG9

mannosyltransferase; ALG9 mannosyltransferase; Dol-P-Man:Man8GlcNAc2-PP-Dol α -1,2-mannosyltransferase; dolichyl β -D-mannosyl phosphate:D-Man- α -(1 \rightarrow 2)-D-Man- α -(1 \rightarrow 2)-D-Man- α -(1 \rightarrow 3)-[D-Man- α -(1 \rightarrow 3)-[D-Man- α -(1 \rightarrow 4)-D-GlcNAc- α -(1 \rightarrow 4)-D-GlcNAc-diphosphodolichol 2- α -D-

mannosyltransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.261

Reaction dolichyl β-D-mannosyl phosphate + α -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 3)$ -

 $\begin{array}{l} [\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 3)-[\alpha\text{-D-Man-}(1\rightarrow 6)]-\alpha\text{-D-Man-}(1\rightarrow 6)]-\beta\text{-D-Man-}(1\rightarrow 4)-\beta\text{-D-GlcNAc-}(1\rightarrow 4)-\alpha\text{-D-GlcNAc-diphosphodolichol} = $\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 2)-\alpha\text{-D-Man-}(1\rightarrow 6)]-$\alpha\text{-D-Man-}(1\rightarrow 6)]-$\beta\text{-D-Man-}(1\rightarrow 4)-$\beta\text{-D-GlcNAc-}(1\rightarrow 4)-$\alpha\text{-D-GlcNAc-diphosphodolichol}$+} \end{array}$

1/1

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 °C for short term. For long term storage, store it at -20 °C∼-80 °C.