

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 6)]-D-Man- α -(1 \rightarrow 6)]-D-Man- α -(1 \rightarrow 4)-D-GlcNAc- β -(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 $+ \alpha$ -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 3)$ - $[\alpha$ -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 3)$ - $[\alpha$ -D-Man- $(1\rightarrow 3)$ -[

Man- $(1\rightarrow 3)$ - $[\alpha$ -D-Man- $(1\rightarrow 6)]$ - α -D-Man- $(1\rightarrow 6)]$ - β -D-Man- $(1\rightarrow 4)$ - β -D-GlcNAc- $(1\rightarrow 4)$ - α -D-GlcNAc-

 $diphosphodolichol = \alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 3)-[\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 3)-[\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 2)-\alpha-\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1$

 $Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 6)]-\alpha-D-Man-(1\rightarrow 6)]-\beta-D-Man-(1\rightarrow 4)-\beta-D-GlcNAc-(1\rightarrow 4)-\alpha-D-GlcNAc-(1\rightarrow 4)-\alpha-D-Gl$

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

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