

dolichyl-P-Man:Man5GlcNAc2-PP-dolichol α -1,3-mannosyltransferase

Cat. No. EXWM-2488

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-dolichol to Man9Glc-NAc2-PP-dolichol on the lumenal side use dolichyl β -D-mannosyl phosphate. The first step of this assembly pathway on the luminal side of the endoplasmic

reticulum is catalysed by ALG3.

Synonyms Man5GlcNAc2-PP-Dol mannosyltransferase; ALG3; dolichyl-P-Man:Man(5)GlcNAc(2)-PP-dolichyl

mannosyltransferase; Not56-like protein; Alg3 α-1,3-mannosyl transferase; Dol-P-Man:Man5GlcNAc2-PP-Dol α-1,3-mannosyltransferase; dolichyl β-D-mannosyl phosphate:D-Man-α- $(1\rightarrow 2)$ -D-Man-α- $(1\rightarrow$

 $(1\rightarrow 3)-[D-Man-\alpha-(1\rightarrow 6)]-D-Man-\beta-(1\rightarrow 4)-D-GlcNAc-\beta-(1\rightarrow 4)-D-GlcNAc-diphosphodolichol ~-1,3-(1\rightarrow 4)-D-GlcNAc-diphosphodolicholo$

mannosyltransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.258

Reaction dolichyl β-D-mannosyl phosphate + α -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 2)$ - α -D-Man- $(1\rightarrow 3)$ -[α -D-Man- $(1\rightarrow 6)$]-β-D-

 $\text{Man-}(1\rightarrow 4)-\beta-\text{D-GlcNAc-}(1\rightarrow 4)-\alpha-\text{D-GlcNAc-diphosphodolichol} = \alpha-\text{D-Man-}(1\rightarrow 2)-\alpha-\text{D-Man-}(1\rightarrow 2)-\alpha-\text{D-Man-}(1\rightarrow 3)-\alpha-\text{D-Man-}(1\rightarrow 6)]-\beta-\text{D-Man-}(1\rightarrow 4)-\beta-\text{D-GlcNAc-}(1\rightarrow 4)-\alpha-\text{D-GlcNAc-diphosphodolichol} + \alpha-\text{D-GlcNAc-diphosphodolichol} + \alpha-\text{D-GlcNAc-diphosphodoli$

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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

 1/1