

dolichyl-P-Man:Man6GlcNAc2-PP-dolichol α -1,2-mannosyltransferase

Cat. No. EXWM-2489

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 Man9GlcNAc2-PP-Dol on the luminal 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 α 1,2 mannosyltransferase; dolichylphosphomannose-dependent ALG9 mannosyltransferase; ALG9 mannosyltransferase; Dol-P-Man:Man6GlcNAc2-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 6)]-D-Man- β -(1 \rightarrow 4)-D-GlcNAc- β -(1 \rightarrow 4)-D-GlcNAc-diphosphodolichol α -1,2-mannosyltransferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.259

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 3)- α -D-Man-(1 \rightarrow 6)]- β -D-Man-(1 \rightarrow 4)- β -D-GlcNAc-(1 \rightarrow 4)- α -D-GlcNAc-diphosphodolichol = α -D-Man-(1 \rightarrow 2)- α -D-Man-(1 \rightarrow 2)- α -D-Man-(1 \rightarrow 3)-[α -D-Man-(1 \rightarrow 2)- α -D-Man-(1 \rightarrow 3)- α -D-Man-(1 \rightarrow 6)]- β -D-Man-(1 \rightarrow 4)- β -D-GlcNAc-(1 \rightarrow 4)- α -D-GlcNAc-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.