

glycoprotein 3-α-L-fucosyltransferase

Cat. No. EXWM-2442

Lot. No. (See product label)

Introduction

Description Requires Mn2+. The enzyme transfers to N-linked oligosaccharide structures (N-glycans), generally with a

specificity for N-glycans with one unsubstituted non-reducing terminal GlcNAc residue. This enzyme catalyses a reaction similar to that of EC 2.4.1.68, glycoprotein 6- α -L-fucosyltransferase, but transferring the L-fucosyl group from GDP- β -L-fucose to form an α 1,3-linkage rather than an α 1,6-linkage. The N-glycan products of this enzyme are present in plants, insects and some other invertebrates (e.g., Schistosoma,

Haemonchus, Lymnaea).

Synonyms GDP-L-Fuc:N-acetyl-β-D-glucosaminide α1,3-fucosyltransferase; GDP-L-Fuc:Asn-linked GlcNAc α1,3-

fucosyltransferase; GDP-fucose: β -N-acetylglucosamine (Fuc to (Fuc α 1 \rightarrow 6GlcNAc)-Asn-peptide) α 1 \rightarrow 3-fucosyltransferase; GDP-L-fucose:glycoprotein (L-fucose to asparagine-linked N-acetylglucosamine of 4-N-{N-acetyl- β -D-glucosaminyl-(1 \rightarrow 2)- α -D-mannosyl-(1 \rightarrow 3)-[N-acetyl- β -D-glucosaminyl-(1 \rightarrow 2)- α -D-mannosyl-(1 \rightarrow 4)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 2)- α -D-mannosyl-(1 \rightarrow 3)-[N-acetyl- β -D-glucosaminyl-(1 \rightarrow 2)- α -D-

mannosyl- $(1\rightarrow 6)$]- β -D-mannosyl- $(1\rightarrow 4)$ -N-acetyl- β -D-glucosaminyl- $(1\rightarrow 4)$ -N-acetyl- β -D-

glucosaminyl}asparagine) 3-α-L-fucosyl-transferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.214

CAS No. 68247-53-0

 $\textbf{\textit{Reaction}} \qquad \text{GDP-}\beta\text{-L-fucose} + \text{N4-}\{\text{N-acetyl-}\beta\text{-D-glucosaminyl-}(1\rightarrow 2)-\alpha\text{-D-mannosyl-}(1\rightarrow 3)-[\text{N-acetyl-}\beta\text{-D-glucosaminyl-}(1\rightarrow 2)-\alpha\text{-D-mannosyl-}(1\rightarrow 2)-$

 $(1\rightarrow 2)-\alpha-D-mannosyl-(1\rightarrow 6)]-\beta-D-mannosyl-(1\rightarrow 4)-N-acetyl-\beta-D-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)-N-acetyl-B-glucosaminyl-(1\rightarrow 4)$

glucosaminyl}asparagine = GDP + N4-{N-acetyl- β -D-glucosaminyl- $(1\rightarrow 2)$ - α -D-mannosyl- $(1\rightarrow 3)$ -[N-acetyl- β -D-glucosaminyl- $(1\rightarrow 2)$ - α -D-mannosyl- $(1\rightarrow 6)$]- β -D-mannosyl- $(1\rightarrow 4)$ -N-acetyl- β -D-glucosaminyl- $(1\rightarrow 4)$ -[α -L-

fucosyl-(1→3)]-N-acetyl-β-D-glucosaminyl}asparagine

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 \sim -80 °C.

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1/1