

glycoprotein 3- α -L-fucosyltransferase

Cat. No. EXWM-2442

Lot. No. (See product label)

Introduction

Description

Requires Mn^{2+} . 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 α 1,3-fucosyltransferase; GDP-L-Fuc:Asn-linked GlcNAc α 1,3-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 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; GDP-L-fucose:glycoprotein (L-fucose to asparagine-linked N-acetylglucosamine of 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)-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

Reaction

GDP- β -L-fucose + 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)-N-acetyl- β -D-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 \rightarrow 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~-80 °C.