

Recombinant Human FUT9 protein

FUT9-219H Human

Lot. No. (See product label)

Specification

Product Overview

Recombinant Human FUT9(Ser2-Ala197) was expressed in CHO.

Description

N-glycans, O-glycans and glycolipids are frequently fucosylated at terminal sites. Therefore, fucose is often part of a sugar epitope with important biological function. Well-known fucose-containing glycans include Lewis and ABO blood group antigens. Lewis epitopes are key elements involved in the leukocyte homing and extravasation process and thus are important for lymphocyte maturation and natural defense functions. Fucose-containing glycans also play critical roles in cell signaling and development. More than 10 fucosyltransferases have been cloned. FUT1 and FUT2 are alpha 1-2 fucosyltransferases and are responsible for ABO blood-group antigen synthesis. FUT8 is an alpha 1-6 fucosyltransferase that adds a fucose to the chitobiose core of N-glycans. FUT3, FUT4, FUT5, FUT6, FUT7 and FUT9 are alpha 1-3 or alpha 1-4 fucosyltransferases and are responsible for Lewis antigen generation. In particular, FUT9 synthesizes the Lewis X oligosaccharide (CD15) in the organ buds progressing in mesenchyma during embryogenesis and in mature granulocytes. The activity of this enzyme has been measured with a phosphatase-coupled method.

Source

CHO

Species

Human

Predicted N Terminal

Thr33

Form

Supplied as a 0.2 µm filtered solution in Tris and NaCl.

Bio-activity

Measured by its ability to transfer fucose from GDP-fucose to N-Acetyllactosamine. The specific activity is >1,000 pmol/min/µg.

Molecular Mass

Predicted Molecular Mass: 39 kDa
SDS-PAGE: 40-50 kDa, reducing conditions

Endotoxin

<0.1 EU per 1 µg of the protein by the LAL method.

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
6 months from date of receipt, -20 to -70 centigrade as supplied.
3 months, -20 to -70 centigrade under sterile conditions after opening.

Gene Information

Gene Name

[FUT9 fucosyltransferase 9 \(alpha \(1,3\) fucosyltransferase\) \[Homo sapiens \]](#)

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Official Symbol	FUT9
Synonyms	fucosyltransferase 9 (alpha (1,3) fucosyltransferase); 4020; Ensembl:ENSG00000172461; alpha-(1,3)-fucosyltransferase;fucT-IX;fucosyltransferase IX;galactoside 3-L-fucosyltransferase; 2.4.1.152; Fuc-TIX
Gene ID	10690
mRNA Refseq	NM_006581.3
Protein Refseq	NP_006572.2
MIM	606865
UniProt ID	Q9Y231

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