

Recombinant Full Length Human FUT3 Protein, GST-tagged

Cat. No. FUT3-5181HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FUT3 full-length ORF (NP_000140.1, 1 a.a. - 361 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	361 amino acids
Description	The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene. [provided by RefSeq
Molecular Mass	68.5 kDa
AA Sequence	MDPLGAAKPQWPWRRCLAALLFQLLVAVCFFSYLRVSRDDATGSPRAPSGSSRQD TTPTRPTLLILLWTWPFHIPVALSRCSEMVPGTADCHITADRKVYPQADTVIVHHWDI

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MSNPKSRLPPSPRPQGQRWIWFNLEPPPNQCQHLEALDRYFNLTMSYRSDSDIFTPY
 GWLEPWSGQPAHPPLNLSAKTELVAWAVSNWKPDSARVRYQSLQAHLKVDVYG
 RSHKPLPKGTMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGPSRS
 NYERFLPPDAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRSFWSAL
 DFCKACWKLQQESRYQTVRSIAAWFT

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

FUT3 fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)
 [Homo sapiens]

Official Symbol

FUT3

Synonyms

FUT3; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); fucosyltransferase 3 (galactoside 3(4) L fucosyltransferase, Lewis blood group included), LE; galactoside 3(4)-L-fucosyltransferase; CD174; Lewis FT; fucosyltransferase III; alpha-(1,3/1,4)-fucosyltransferase; blood group Lewis alpha-4-fucosyltransferase; LE; Les; FT3B; FucT-III; MGC131739;

Gene ID

2525

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mRNA Refseq	NM_000149
Protein Refseq	NP_000140
MIM	111100
UniProt ID	P21217

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