Recombinant Human FUT3 protein, His & T7-tagged

Cat. No. FUT3-5652H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FUT3 aa. (Phe30~Lys259 (Accession # P21217)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Phe30~Lys259
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.4kDa

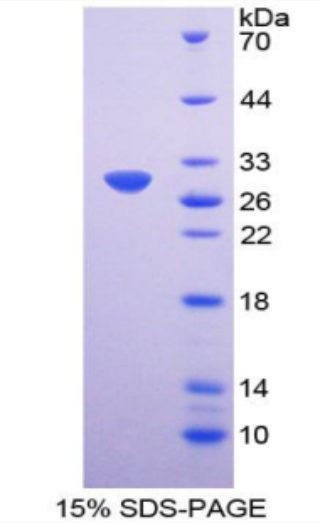
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Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	FUT3 fucosyltransferase 3 (Lewis blood group) [Homo sapiens (human)]
Official Symbol	FUT3
Synonyms	FUT3; fucosyltransferase 3 (Lewis blood group); LE; Les; FT3B; CD174; FucT-III; galactoside 3(4)-L-fucosyltransferase; Lewis FT; alpha-(1,3/1,4)-fucosyltransferase; blood group Lewis alpha-4-fucosyltransferase; fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group); fucosyltransferase III

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Gene ID	2525
mRNA Refseq	NM_000149.3
Protein Refseq	NP_000140.1
UniProt ID	P21217
SDS-PAGE	

15% SDS-PAGE

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