

## Recombinant Human FUT3 Protein, His-tagged

Cat. No. FUT3-042H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human FUT3 Protein with His tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**Description**

Glycosyltransferases that mediate the regio- and stereoselective transfer of sugars, such as the fucosyltransferases, determine cell surface-carbohydrate profiles, which is an essential interface for biological recognition processes. Fucosyltransferases catalyze the covalent association of fucose to different positional linkages in sugar acceptor molecules. The carbohydrate moieties generated and covalently attached to cell surfaces are necessary to ensure a surface contour that satisfies physiological roles, which are reliant on adhesion molecules such as selectins. Hematopoietic lineages rely on fucosyltransferases to confer a surface carbohydrate phenotype, which mediates proper cell adhesion molecule recruitment and cell trafficking. Blood Group Lewis a is a carbohydrate determinant carried on both glycolipids and glycoproteins.

**Molecular Mass** ~42 kDa

**AA Sequence**

MRVSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTWPFHIPVALSRCSEMVPGTA  
DCHITADRKVYPQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWIWFNLEPPPNCQH  
LEALDRYFNLTMSYRSDSIDFTPYGWLEPWSGQPAHPPLNLSAKTELVAWAVSNWK  
PDSARVRYYYQSLQAHLKVDVYGRSHKPLPKGTMETLSRYKFYLAFENSLHPDYIT

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EKLWRNALEAWAVPVVLGSPRSNYERFLPPDAFIHVDDFQSPKDLARYLQELDKDH  
ARYLSYFRWRETLRPRSFSWALDFCKACWKLQQESRYQTVRSIAAWFT

**Purity**

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

**Notes**

For research use only, not for use in diagnostic procedure.

**Storage**

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

**Storage Buffer**

PBS, 4M Urea, pH7.4

## GENE INFORMATION

**Gene Name**

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

**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](#)

**mRNA Refseq**

[NM\\_000149](#)

**Protein Refseq**

[NP\\_000140](#)

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<b>UniProt ID</b>	P21217
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