

# Recombinant human Fucosyltransferase 3/FUT3 protein

Catalog Number: ATGP2322

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

35-361aa

### UniProt No.

P21217

### NCBI Accession No.

NP\_001091110

### Alternative Names

3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase FUT3, 4-galactosyl-N-acetylglucosaminide 3-alpha-L-fucosyltransferase, Alpha-3-fucosyltransferase FUT3, Blood group Lewis alpha-4-fucosyltransferase, Lewis FT, Fucosyltransferase 3, Fucosyltransferase III, FucT-III, FT3B, LE

## PRODUCT SPECIFICATION

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### Molecular Weight

40.6 kDa (350aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Fucosyltransferase 3, also known as FuT3, may catalyze alpha-1, 3 and alpha-1, 4 glycosidic linkages involved in the expression of Vim-2, Lewis A, Lewis B, sialyl Lewis X and Lewis X/SSEA-1 antigens. This protein may be involved in blood group Lewis determination; Lewis-positive (Le+) individuals have an active enzyme while Lewis-negative (Le-) individuals have an inactive enzyme. Also acts on the corresponding 1, 4-galactosyl derivative,

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forming 1, 3-L-fucosyl links. Recombinant human Fut3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSRVSRDDA TGSPRAPSGS SRQDTTPTRP TLLILLWTWP FHIPVALSRC SEMVPGTADC  
HITADRKVYP QADTVIVHHW DIMSNPKSRL PPSRPQQR WIWFNLEPPP NCQHLEALDR YFNLTMSYRS DSDIFTPYGW  
LEPWSGQPAH PPLNLSAKTE LVAWAVSNWK PDSARVRYQ SLQAHLKVDV YGRSHKPLPK GTMMETLSRY KFYLAFENSL  
HPDYITEKLW RNALEAWAVP VVLGPSRSNY ERFLPPDAFI HVDDFQSPKD LARYLQELDK DHARYLSYFR WRETLRPRSF  
SWALDFCKAC WKLQQESRYQ TVRSIAAWFT

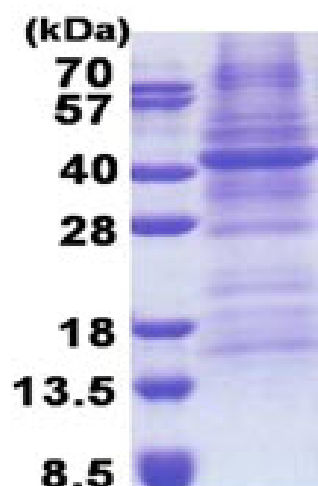
## General References

Cameron H.S., et al. (1995) J. Biol. Chem. 270:20112-20122

Nishihara S., et al. (1993) Biochem. Biophys. Res. Commun. 196:624-631

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)