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## Recombinant human Fucosyltransferase 3/FUT3 protein

Catalog Number: ATGP2322

#### PRODUCT INFORMATION

## **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**

### **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**

## **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 Lewisnegative (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**

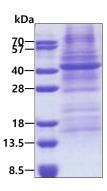
<MGSSHHHHHH SSGLVPRGSH MGS>RVSRDDA TGSPRAPSGS SRQDTTPTRP TLLILLWTWP FHIPVALSRC SEMVPGTADC HITADRKVYP QADTVIVHHW DIMSNPKSRL PPSPRPQGQR WIWFNLEPPP NCQHLEALDR YFNLTMSYRS DSDIFTPYGW LEPWSGQPAH PPLNLSAKTE LVAWAVSNWK PDSARVRYYQ SLQAHLKVDV YGRSHKPLPK GTMMETLSRY KFYLAFENSL HPDYITEKLW RNALEAWAVP VVLGPSRSNY ERFLPPDAFI 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.

