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 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

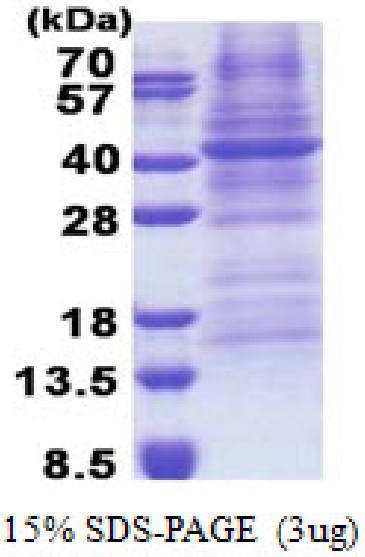
MGSSHHHHHH SSGLVPRGSH MGSRVSRDDA TGSPRAPSGS SRQDTTPTRP TLLILLWTWP FHIPVALSRC SEMVPGTADC HITADRKVYP QADTVIVHHW DIMSNPKSRL PPSPRPQGQR WIWFNLEPPP NCQHLEALDR YFNLTMSYRS DSDIFTPYGW LEPWSGQPAH PPLNLSAKTE LVAWAVSNWK PDSARVRYYQ SLQAHLKVDV YGRSHKPLPK GTMMETLSRY KFYLAFENSL HPDYITEKLW RNALEAWAVP VVLGPSRSNY ERFLPPDAFI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



15% SDS-PAGE (3ug)

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