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

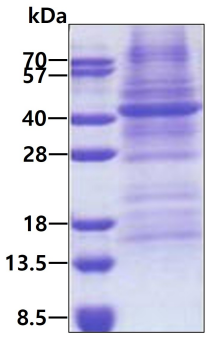
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General References

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.