

Recombinant Human FUT3, His-tagged

Cat. No. FUT3-2322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FUT3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	350aa
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, forming 1,3-L-fucosyl links.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	40.6 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSRVSRDDA TGSPRAPSGS SRQDTTPTRP TLLILLWTWP FHIPVALSRC SEMVPGTADC HITADRKVYP QADTVIVHHW DIMSNPKSRL PPSRPQGGQR WIWFNLEPPP NCQHLEALDR YFNLTMSYRS DSDIFTPYGW LEPWSGQPAH PPLNLSAKTE LVAWAVSNWK PDSARVRYQ SLQAHCLKVDV YGRSHKPLPK GTMMETLSRY KFYLAFENSL HPDYITEKLW

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RNALEAWAVP VVLGPSRSNY ERFLPPDAFI HVDDFQSPKD LARYLQELDK
DHARYLSYFR WRETLRPRSF SWALDFCKAC WKLQQESRYQ TVRSIAAWFT

Purity >80% by SDS - PAGE

Applications SDS-PAGE

Storage Store it at +4°C for short term. For long term storage, store it at -20°C ~ -70°C
Avoid freeze/thaw cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name FUT3 fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis blood group)
[Homo sapiens]

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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UniProt ID	P21217
Chromosome Location	19p13.3
Pathway	Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	3-galactosyl-N-acetylglucosaminide 4-alpha-L-fucosyltransferase activity; alpha-(1->3)-fucosyltransferase activity; fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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