

Active Recombinant Human Fucosyltransferase 3 (galactoside 3 (4)-L-fucosyltransferase, Lewis blood group), His-tagged

Cat. No. FUT3-573H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinanthuman FUT3 protein was expressed in Murine myeloma cell line, NS0-derived, with an N-terminus 6-His tag. Arg35-Thr361.
Species	Human
Source	Mammalian Cells
ProteinLength	35-361 a.a.
Description	FUT3 is often found to be essential for sugar epitope and lectin ligand generation. Well known FUT3 containing structures include Lewis structures and ABO blood group antigens. Lewis structures are key elements involved in leukocyte homing and extravasation process and thus are essential for lymphocyte maturation and natural defense functions.
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
N-terminal Sequence	His
Molecular Weight	39 kDa
Activity	Measured by its ability to transfer fucose from GDP-fucose to N-Acetyllactosamine. This specific activity is > 25 pmol/min/µg, as measured under the described conditions.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	41 kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

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; MGC131739; alpha (1,3/1,4) fucosyltransferase; Blood group Lewis alpha-4-fucosyltransferase; FT3B; Fucosyltransferase 3; Fucosyltransferase III; FucT-III; FUT3_HUMAN; galactoside 3(4) L fucosyltransferase, Lewis blood group; Galactoside 3(4)-L-fucosyltransferase; Lewis B Blood Group antigen; Lewis FT; alpha-(1,3/1,4)-fucosyltransferase; Les
Gene ID	2525
mRNA Refseq	NM_000149
Protein Refseq	NP_000140

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MIM	111100
UniProt ID	P21217
Chromosome Location	19p13.3
Pathway	Glycosphingolipidbiosynthesis-lacto and neolacto series; Metabolic pathways
Function	3-galactosyl-N-acetylglucosaminide4-alpha-L-fucosyltransferase activity; alpha-(1->3)-fucosyltransferaseactivity; fucosyltransferase activity; transferase activity, transferringglycosyl groups

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