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 foundto be essential for sugar epitope and lectin ligand generation. Well knownFUT3 containing structures include Lewis structures and ABO blood groupantigens. Lewis structures are key elements involved in leukocyte homing and extravasationprocess and thus are essential for lymphocyte maturation and natural defense functions.
Form	Supplied as a 0.2 μmfiltered solution in Tris and NaCl.
N-terminal Sequence	His
Molecular Weight	39 kDa
Activity	Measured by itsability to transfer fucose from GDP-fucose to N-Acetyllactosamine. Thespecific activity is > 25 pmol/min/μg, as measured under the described conditions.

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Endotoxin Level	<1.0 EU per 1 μgof the protein by the LAL method.
SDS-PAGE	41 kDa, reducingconditions
Purity	>90%, by SDS-PAGEunder reducing conditions and visualized by silver stain.
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3months, -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 bloodgroup); fucosyltransferase 3 (galactoside 3(4) L fucosyltransferase, Lewisblood group included); LE; galactoside 3(4)-L-fucosyltransferase; CD174;MGC131739; alpha (1,3/1,4) fucosyltransferase; Blood group Lewisalpha-4-fucosyltransferase; FT3B; Fucosyltransferase 3; FucosyltransferaseIII; FucT-III; FUT3_HUMAN; galactoside 3(4) L fucosyltransferase, Lewis bloodgroup; 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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