

Active Recombinant Human Fucosyltransferase 8 (alpha (1, 6) fucosyltransferase), His-tagged

Cat. No. FUT8-577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman FUT8 protein was expressed in Chinese Hamster Ovary cell line, CHO-derived;with an N-terminus human CD33 signal sequence, and 6-His tag. Asp32-Lys575.
Species	Human
Source	CHO
ProteinLength	32-575 a.a.
Description	FUT8 is frequentlyfound at terminal sites on various glycols and is essential for thegeneration of many sugar epitomes. Well known FUT8 containing glycols includeLewis and ABO blood group antigens. Lewis epitomes are key elements involvedin leukocyte homing and extravasations process, thus are essential forlymphocyte maturation and natural defense functions.
Form	Supplied as a 0.2 µmfiltered solution in Tris and NaCl.
N-terminal Sequence	His
Molecular Weight	64 kDa
Activity	Measured by itsability to hydrolyze the donor substrate GDP-fucose. The specific activity is> 0.75 pmole/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	58-62 kDa, reducing conditions
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 µg per lane.
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	FUT8 fucosyltransferase 8 (alpha(1, 6) fucosyltransferase) [Homo sapiens]
Official Symbol	FUT8
Synonyms	FUT8; fucosyltransferase8 (alpha (1, 6) fucosyltransferase); alpha-(1, 6)-fucosyltransferase; OTTHUMP00000245300; OTTHUMP00000245301; OTTHUMP00000245302; OTTHUMP00000245303; OTTHUMP00000245304; OTTHUMP00000245305; OTTHUMP00000245306; OTTHUMP00000245307; OTTHUMP00000183477; OTTHUMP00000183478; OTTHUMP00000245299; EC 2.4.1.68; Fucosyltransferase8; GDP-L-Fuc: N-acetyl-beta-D-glucosaminide alpha 1, 6-fucosyltransferase; GDP-fucose-glycoprotein fucosyltransferase; Glycoprotein; 6-alpha-L-fucosyltransferase; alpha1-6FucT; MGC26465
Gene ID	2530
mRNA Refseq	NM_004480

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Protein Refseq	NP_004471
MIM	602589
UniProt ID	Q9BYC5
Chromosome Location	14q24.3
Pathway	AsparagineN-linked glycosylation; Glycosaminoglycan biosynthesis-keratan sulfate;Metabolic pathways; Metabolism of proteins; N-Glycanbiosynthesis; N-glycan antennae elongation in the medial/trans-Golgi;N-glycan biosynthesis, complex type; N-glycan biosynthesis, complex type;Reactions specific to the complex N-glycan synthesis pathway; Transcriptionalmisregulation in cancer; Transport to the Golgi and subsequent modification
Function	SH3domain binding; glycoprotein 6-alpha-L-fucosyltransferase activity;transferase activity, transferring glycosyl groups
PDBrendering based on 2de0.	