

## Recombinant Human FUT9 Protein, Thr33-Asn359

Cat. No. FUT9-219H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FUT9 Protein (Thr33-Asn359) without tag was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	2-197 a.a.
<b>Description</b>	The protein encoded by this gene belongs to the glycosyltransferase family. It is localized to the golgi, and catalyzes the last step in the biosynthesis of Lewis X (LeX) antigen, the addition of a fucose to precursor polysaccharides. This protein is one of the few fucosyltransferases that synthesizes the LeX oligosaccharide (CD15) expressed in the organ buds progressing in mesenchyma during embryogenesis. It is also responsible for the expression of CD15 in mature granulocytes. A common haplotype of this gene has also been associated with susceptibility to placental malaria infection.
<b>Bio-activity</b>	Measured by its ability to transfer fucose from GDP-fucose to N-Acetyllactosamine The specific activity is >1,000 pmol/min/μg, as measured under the described conditions.
<b>Molecular Mass</b>	Predicted Molecular Mass: 39 kDa SDS-PAGE: 40-50 kDa, reducing conditions

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<b>Endotoxin</b>	< 1.0 EU/μg of the protein by the LAL method.
<b>Purity</b>	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
<b>N-terminal Sequence Analysis</b>	Thr33
<b>Stability</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
<b>Storage Buffer</b>	Supplied as a 0.2 μm filtered solution in Tris and NaCl.
<b>Shipping</b>	The product is shipped with polar packs.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Jafar-Nejad, H. et al. (2010) Glycobiology 20:931.</li> <li>2. Becker, D.J. et al. (2003) Glycobiology 13:41R.</li> <li>3. Lee, S.H. et al. (2006) J. Biochem. 139:391.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	FUT9 fucosyltransferase 9 (alpha (1,3) fucosyltransferase) [ Homo sapiens (human) ]
<b>Official Symbol</b>	FUT9
<b>Synonyms</b>	fucosyltransferase 9 (alpha (1,3) fucosyltransferase); 4020; Ensembl:ENSG00000172461; alpha-(1,3)-fucosyltransferase;fucT-IX;fucosyltransferase IX;galactoside 3-L-fucosyltransferase; 2.4.1.152; Fuc-TIX
<b>Gene ID</b>	10690

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<b>mRNA Refseq</b>	NM_006581
<b>Protein Refseq</b>	NP_006572
<b>MIM</b>	606865
<b>UniProt ID</b>	Q9Y231

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