

Recombinant Human FUT9 Protein, Thr33-Asn359

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

SPECIFICATION

Product Overview	Recombinant Human FUT9 Protein (Thr33-Asn359) without tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	2-197 a.a.
Description	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.
Bio-activity	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.
Molecular Mass	Predicted Molecular Mass: 39 kDa SDS-PAGE: 40-50 kDa, reducing conditions

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Thr33
Stability	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.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris and NaCl.
Shipping	The product is shipped with polar packs.
References	1. Jafar-Nejad, H. et al. (2010) Glycobiology 20:931. 2. Becker, D.J. et al. (2003) Glycobiology 13:41R. 3. Lee, S.H. et al. (2006) J. Biochem. 139:391.

GENE INFORMATION

Gene Name	FUT9 fucosyltransferase 9 (alpha (1,3) fucosyltransferase) [Homo sapiens (human)]
Official Symbol	FUT9
Synonyms	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
Gene ID	10690

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_006581
Protein Refseq	NP_006572
MIM	606865
UniProt ID	Q9Y231

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA