

Recombinant Mouse Fut1 Protein, Myc/DDK-tagged

Cat. No. Fut1-3108M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length fucosyltransferase 1 (Fut1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene is one of three genes in mouse which encode a galactoside 2-L-fucosyltransferase. These genes differ in their developmental- and tissue-specific expression. The encoded type II membrane protein is anchored in the Golgi apparatus and controls the final step in the creation of alpha (1,2) fucosylated carbohydrates by the addition of a terminal fucose in an alpha (1,2) linkage. This enzyme is required for the synthesis of the Lewis antigen as well as the H-antigen, a precursor of the A and B antigens of the ABH histo-blood group. The biological function of the fucosylated carbohydrate products is thought to involve cell-adhesion and interactions with microorganisms. Disruption of this gene impairs development of the olfactory nerve and maturation of the glomerular layer of the main olfactory bulb. Alternative splicing results in multiple transcript variants which encode distinct isoforms.
Molecular Mass	42.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Fut1 fucosyltransferase 1 [Mus musculus (house mouse)]

Official Symbol Fut1

Synonyms Fut1; fucosyltransferase 1; MFUT-1; galactoside alpha-(1,2)-fucosyltransferase 1; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1; H transferase; alpha(1,2)FT 1; beta-galactoside alpha-1,2-fucosyltransferase; galactoside 2-alpha-L-fucosyltransferase 1; type 1 galactoside alpha-(1,2)-fucosyltransferase FUT1; type 2 galactoside alpha-(1,2)-fucosyltransferase FUT1; EC 2.4.1.344

Gene ID 14343

mRNA Refseq NM_008051

Protein Refseq NP_032077

UniProt ID P97327

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