

Recombinant Mouse Fut1 Protein, His-tagged

Cat. No. Fut1-1534M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fut1 Protein (Gly109-Val377) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gly109-Val377
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.4 kDa

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	Accurate Molecular Mass: 34 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Fut1 fucosyltransferase 1 [Mus musculus (house mouse)]
Official Symbol	Fut1
Synonyms	FUT1; fucosyltransferase 1; galactoside 2-alpha-L-fucosyltransferase 1; H transferase; alpha(1,2)FT 1; beta-galactoside alpha-1,2-fucosyltransferase; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1; H; MGC129302; MGC129303;
Gene ID	14343

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mRNA Refseq	NM_008051
Protein Refseq	NP_032077
UniProt ID	O09160

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