Galactoside 2-Alpha-L-Fucosyltransferase 2 (FUT2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Galactoside 2-alpha-L-fucosyltransferase 2 (Fut2), Recombinant Protein
Full Product Name	Recombinant Rat Galactoside 2-alpha-L-fucosyltransferase 2 (Fut2), partial
Product Gene Name	Fut2 recombinant protein
Product Synonym Gene Name	Fut2
Sequence	MASAQVPFSF PLAHFLIFVF VTSTITHLQQ RIVKLQPLSE KELPMTTQMS SGNTESPEMR RDSEQHGNGE LRGMFTINSI GRLGNQMGEY ATLFALARMN GRLAFIPASM HNALAPIFRI SLPVLHSDTA KKIPWQNYHL NDWMEERYRH IPGHFVRFTG YPCSWTFYHH LRPEILKEFT LHDHVREEAQ AFLRGLRVNG SQPSTFVGVH VRRGDYVHVM PNVWKGVVAD RGYLEKALDM FRARYSSPVF VVTSNGMAWC RENINASRGD VVFAGNGIEG SPAKDFALLT QCNHTIMTIG TFGIWAAYLA GGDTIYLANY TLPDSPFLKV FKPEAAFLPE WVGIPADLSP LLKH
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	42,730 Da
Sequence Positions	1-354
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q10984
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fut2 recombinant protein	This protein is a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the soluble A and B antigen synthesis pathway. This gene is one of two encoding the galactoside 2-L-fucosyltransferase enzyme. Two transcript variants encoding the same protein have been found for this gene.
Other Notes	Small volumes of Fut2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Fut2 purchase	MBS1320850 is a recombinant protein targeting Fut2. Also known as Recombinant Rat Galactoside 2-alpha-L-fucosyltransferase 2 (Fut2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fut2. It may not necessarily be applicable to this product.

NCBI GI #	13994175
NCBI GeneID	58924

NCBI Accession #	NP_113823.1
UniProt Primary Accession #	Q10984
UniProt Secondary Accession #	O35087; Q9JK44; Q9R275
UniProt Related Accession #	Q10984
GenBank Nucleotide #	NM_031635.1
NCBI Official Full Name	galactoside 2-alpha-L-fucosyltransferase 2
NCBI Official Synonym Full Names	fucosyltransferase 2
NCBI Official Symbol	Fut2
NCBI Official Synonym Symbols	Ftc; Futb
UniProt Protein Name	Galactoside 2-alpha-L-fucosyltransferase 2
UniProt Synonym Protein Names	Alpha 1,2-fucosyltransferase; Alpha 1,2-fucosyltransferase B; Alpha 1-2 fucosyltransferase; Alpha(1,2)FT 2; Fucosyltransferase 2; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 2; Secretor blood group alpha-2-fucosyltransferase
Protein Family	Fucosyltransferase
UniProt Gene Name	Fut2
UniProt Synonym Gene Names	Ftb; Sec1
NCBI Protein Information	galactoside 2-alpha-L-fucosyltransferase 2
NCBI Summary for Fut2	catalyzes the conversion of GDP-L-fucose and beta-D-galactosyl-R to GDP and alpha-L-fucosyl-(1,2)-beta-D-galactosyl-R [RGD, Feb 2006]
UniProt Comments for Fut2	Mediates the transfer of fucose to the terminal galactose on glycan chains of cell surface glycoproteins and glycolipids (PubMed:11341836, PubMed:11179967). The resulting epitope plays a role in cell-cell interaction including host-microbe interaction (). Mediates interaction with intestinal microbiota influencing its composition (). Creates a membrane-associated precursor oligosaccharide Fuc-alpha((1,2)Gal-beta-) called the H antigen which is an essential substrate for the final step in the membrane-associated blood group antigen synthesis pathway (PubMed:11179967).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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