C1GALT1-Specific Chaperone 1 (C1GALT1C1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	C1GALT1-specific chaperone 1 (C1GALT1C1), Recombinant Protein
Full Product Name	Recombinant Human C1GALT1-specific chaperone 1 (C1GALT1C1), partial
Product Gene Name	C1GALT1C1 recombinant protein
Product Synonym Gene Name	C1GALT1C1
Sequence	MLSESSSFLK GVMLGSIFCA LITMLGHIRI GHGNRMHHHE HHHLQAPNKE DILKISEDER MELSKSFRVY CIILVKPKDV SLWAAVKETW TKHCDKAEFF SSENVKVFES INMDTNDMWL MMRKAYKYAF DKYRDQYNWF FLARPTTFAI IENLKYFLLK KDPSQPFYLG HTIKSGDLEY VGMEGGIVLS VESMKRLNSL LNIPEKCPEQ GGMIWKISED KQLAVCLKYA GVFAENAEDA DGKDVFNTKS VGLSIKEAMT YHPNQVVEGC CSDMAVTFNG LTPNQMHVMM YGVYRLRAFG HIFNDALVFL PPNGSDND
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	36,382 Da
Sequence Positions	1-318
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.
OMIM	300611
3D Structure	ModBase 3D Structure for Q96EU7
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C1GALT1C1 recombinant protein	This gene encodes a type II transmembrane protein that is similar to the core 1 beta1,3-galactosyltransferase 1, which catalyzes the synthesis of the core-1 structure, also known as Thomsen-Friedenreich antigen, on O-linked glycans. This gene product lacks the galactosyltransferase activity itself, but instead acts as a molecular chaperone required for the folding, stability and full activity of the core 1 beta1,3-galactosyltransferase 1. Mutations in this gene have been associated with Tn syndrome. Alternatively spliced transcript variants encoding the same protein have been identified.
Other Notes	Small volumes of C1GALT1C1 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 C1GALT1C1 purchase	MBS1338308 is a recombinant protein targeting C1GALT1C1. Also known as Recombinant Human C1GALT1-specific chaperone 1 (C1GALT1C1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1GALT1C1. It may not necessarily be applicable to this product.

NCBI GI #	58532584
NCBI GeneID	29071
NCBI Accession #	NP_001011551.1
UniProt Primary Accession #	Q96EU7
UniProt Secondary Accession #	Q8WWS3; Q9NZX1; A8K246
UniProt Related Accession #	Q96EU7
GenBank Nucleotide #	NM_001011551.2
NCBI Official Full Name	C1GALT1-specific chaperone 1
NCBI Official Synonym Full Names	C1GALT1 specific chaperone 1
NCBI Official Symbol	C1GALT1C1
NCBI Official Synonym Symbols	TNPS; COSMC; MST143; C1GALT2; HSPC067; C38H2-L1
UniProt Protein Name	C1GALT1-specific chaperone 1
UniProt Synonym Protein Names	C38H2-like protein 1; C38H2-L1; Core 1 beta1,3-galactosyltransferase 2; C1Gal-T2; C1GalT2; Core 1 beta3-Gal-T2; Core 1 beta3-galactosyltransferase-specific molecular chaperone
Protein Family	C1GALT1-specific chaperone
UniProt Gene Name	C1GALT1C1
UniProt Synonym Gene Names	COSMC; C38H2-L1; C1Gal-T2; C1GalT2; Core 1 beta3-Gal-T2
NCBI Protein Information	C1GALT1-specific chaperone 1
UniProt Comments for C1GALT1C1	Probable chaperone required for the generation of 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Probably acts as a specific molecular chaperone assisting the folding/stability of core 1 beta-3-galactosyltransferase (C1GALT1).
Research Articles on C1GALT1C1	**1.** The data suggest that hypermethylation of the Cosmc promoter may induce the expression of Tn antigen in activated T cells.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/c1galt1-specific-chaperone-1-c1galt1c1/1338308