CD52 Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD52, Recombinant Protein
Full Product Name	CD52 Protein, Rat, Recombinant (hFc Tag)
Product Gene Name	CD52 recombinant protein
Product Synonym Names	Rat CD52/CDW52 Protein (Fc Tag); CD52 molecule
Sequence	Met1-Ala69
Host	HEK293 Cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Purity/Purification	>70% as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.
Molecular Weight	9,829 Da
3D Structure	ModBase 3D Structure for Q63064
Species	Rat
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gly 24
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the rat ILCD52 (Q63064)(Met1-Ala69) was expressed, fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Product Categories/Family for CD52 recombinant protein	Cancer Drug Targets
Related Product Information for CD52 recombinant protein	Background: CD52/CDW52 is a small glycosylphosphatidylinositol (GPI) anchored glycoprotein. It has a mature peptide comprising only 12 amino acids and is abundantly expressed on human lymphocytes. From the clinical point of view this protein is an important target for therapeutic interventions aimed at leukocyte depletion in hematological malignancies and post-transplant immunosuppression. CD52/CDW52 may play a role in carrying and orienting carbohydrate. It is an unusually good target for complement-mediated cell lysis.
Product References and Citations for CD52 recombinant protein	Piccaluga PP, et al. (2007) Expression of CD52 in peripheral T-cell lymphoma. Haematologica. 92(4): 566-7.
Other Notes	Small volumes of CD52 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 CD52 purchase	MBS8123421 is a recombinant protein targeting CD52. Also known as CD52 Protein, Rat, Recombinant (hFc Tag). Host: HEK293 Cells.



SDS-Page of CD52 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD52. It may not necessarily be applicable to this product.

NCBI GI #	16758884
NCBI GeneID	117054
NCBI Accession #	NP_446435.1
UniProt Primary Accession #	Q63064
UniProt Related Accession #	Q63064
GenBank Nucleotide #	NM_053983.1
NCBI Official Full Name	CAMPATH-1 antigen
NCBI Official Synonym Full Names	CD52 molecule
NCBI Official Symbol	Cd52
NCBI Official Synonym Symbols	B7
UniProt Protein Name	CAMPATH-1 antigen
UniProt Synonym Protein Names	Lymphocyte differentiation antigen B7; CD_antigen: CD52
Protein Family	CAMPATH-1 antigen
UniProt Gene Name	Cd52
UniProt Synonym Gene Names	Cdw52; Rb7
UniProt Entry Name	CD52_RAT
NCBI Protein Information	CAMPATH-1 antigen
NCBI Summary for CD52	glycosylphosphatidylinositol (GPI)-anchored cell surface antigen [RGD, Feb 2006]
UniProt Comments for CD52	CD52: May play a role in carrying and orienting carbohydrate, as well as having a more specific role. Protein type: Membrane protein, integral; Membrane protein, GPI anchor Cellular Component: cytosol; integral to membrane; plasma membrane Biological Process: elevation of cytosolic calcium ion concentration
Research Articles on CD52	**1.** CD52+ cells were found in areas active in vasculogenesis at early embryo stages and in the walls of the vessels in the liver at mid gestation.
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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