Scavenger Receptor Cysteine-Rich Type 1 Protein M130 (CD163) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Scavenger receptor cysteine-rich type 1 protein M130 (CD163), Recombinant Protein
Full Product Name	Recombinant Human Scavenger receptor cysteine-rich type 1 protein M130 (CD163) , partial
Product Gene Name	CD163 recombinant protein
Product Synonym Gene Name	CD163
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	124,958 Da
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	605545
3D Structure	ModBase 3D Structure for Q86VB7
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CD163 recombinant protein	MBS1455576 is a recombinant protein targeting CD163. Also known as Recombinant Human Scavenger receptor cysteine-rich type 1 protein M130 (CD163) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CD163 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD163. It may not necessarily be applicable to this product.

NCBI GI #	344179110
NCBI GeneID	9332
NCBI Accession #	NP_004235.4
UniProt Primary Accession #	Q86VB7
UniProt Secondary Accession #	Q07898; Q07899; Q07900; Q07901; Q2VLH7; C9JIG2
UniProt Related Accession #	Q86VB7
GenBank Nucleotide #	NM_004244.5

NCBI Official Full Name	scavenger receptor cysteine-rich type 1 protein M130 isoform a
NCBI Official Synonym Full Names	CD163 molecule
NCBI Official Symbol	CD163
NCBI Official Synonym Symbols	M130; MM130; SCARI1
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Synonym Protein Names	Hemoglobin scavenger receptor; CD_antigen: CD163
Protein Family	Scavenger receptor cysteine-rich type 1 protein
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130
NCBI Summary for CD163	The protein encoded by this gene is a member of the scavenger receptor cysteine-rich (SRCR) superfamily, and is exclusively expressed in monocytes and macrophages. It functions as an acute phase-regulated receptor involved in the clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages, and may thereby protect tissues from free hemoglobin-mediated oxidative damage. This protein may also function as an innate immune sensor for bacteria and inducer of local inflammation. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for CD163	Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells.
Research Articles on CD163	**1.** The effect of LPS in the expression of CD163 and CD206 on monocytes is not reverted in LPS tolerant cells, and the inhibition of inflammatory cytokines in tolerant cells is not related with modulation of these receptors
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