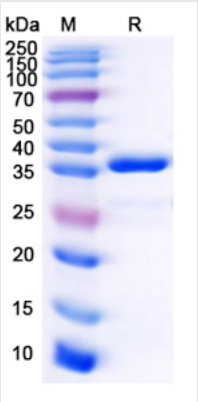
CD163 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD163, Recombinant Protein
Full Product Name	Recombinant Human CD163 Protein, N-GST & C-His
Product Gene Name	CD163 recombinant protein
Product Synonym Names	Scavenger receptor cysteine-rich type 1 protein M130; M130; Hemoglobin scavenger receptor; CD163; sCD163
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	39.51 kDa
Sequence Positions	Arg476-Thr581
OMIM	605545
3D Structure	ModBase 3D Structure for Q86VB7
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD163 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD163 recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunogen
Application Notes for CD163 recombinant protein	Bioactivity testing in progress
Related Product Information for CD163 recombinant protein	MBS1578298 is a recombinant protein targeting CD163. Also known as Recombinant Human CD163 Protein, N-GST & C-His. Host: E coli.
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.



SDS-Page of CD163 recombinant protein
SDS PAGE for Recombinant Human CD163 protein

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
UniProt Protein Name	Scavenger receptor cysteine-rich type 1 protein M130
UniProt Synonym Protein Names	Hemoglobin scavenger receptor
Protein Family	Scavenger receptor cysteine-rich type 1 protein
UniProt Gene Name	CD163
UniProt Synonym Gene Names	M130; sCD163
UniProt Entry Name	C163A_HUMAN
NCBI Protein Information	scavenger receptor cysteine-rich type 1 protein M130; hemoglobin scavenger receptor; macrophage-associated antigen
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	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. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: integral to plasma membrane; plasma membrane; extracellular region Molecular Function: protein binding; scavenger receptor activity Biological Process: receptor-mediated endocytosis; acute-phase response
Research Articles on CD163	**1.** sCD163 correlates with CD163 mRNA expression in subcutaneous and visceral adipose tissue and with whole-body insulin sensitivity in the steady-state condition.
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