

Recombinant Human CD163, His-tagged

Cat. No. CD163-4272H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD163 Porcine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 805 amino acids and having a molecular mass of 87kDa. The CD163 is fused to an 8 amino acid His Tag at C-terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized from a 0.2µ filtered concentrated solution in 1×PBS, pH 7.4, containing 4M Urea.
Molecular Mass	87 kDa
AA Sequence	MDKLRMVLHE NSGSADLKLR VVDGVTECSG RLEVKFQGEW GTICDDGWDS DDAAVACKQL GCPTAVTAIG RVNASEGTGH IWLDSVSCHG HESALWQCRH

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HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GSHCAGTVE VEIQKLVGKV
CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET
SLWDCKNWQW GGLSCDHYDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD
TWGTVCDSDF SLEAASVLCR ELQCGTVVSL LGGAHFGEGS GQIWAEFQC
EGHESHLSLC PVAPRPDGTC SHSRDVGVC SRYTQIRLVN GKTPCEGRVE
LNILGSWGS LNSHWDMEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR
HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS
SDPSSSIISE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE GSWG TICDDS
WDLNDAHVVC KQLSCGWAIN ATGSAHFGEG TGPIWLDEIN CNGKESHIWQ
CHSHGWGRHN CRHKEDAGVI CSEFMSLR LI SENSRETCAG RLEVFYNGAW
GSVGKNSMSP ATVGVC RQL GCADR GDISP ASSDKTVSRH MWVDNVQCPK
GPD TLWQCPS SPWKRLASP SEETWITCAN KIRLQEGNTN CSGRVEI WYG
GSWGTVCD DS WDLEDAQVVC RQLGCGSALE AGKEAAF GGQ TGPIWLNEVK
CKGNETSLWD CPARSWG HSD CGHKEDA AVT CSEIAKSRES LHATGRSHHH
HHHHH.

Purity Greater than 95.0% as determined by HPLC and SDS-PAGE.

Usage The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Stability Lyophilized CD163 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD163 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Reconstitution It is recommended to reconstitute the lyophilized CD163 in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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GENE INFORMATION

Gene Name	CD163 CD163 molecule [Homo sapiens]
Official Symbol	CD163
Synonyms	CD163; CD163 molecule; M130; MM130; scavenger receptor cysteine-rich type 1 protein M130; CD163 antigen; OTTHUMP00000238617; OTTHUMP00000238618; OTTHUMP00000238619; OTTHUMP00000238620; hemoglobin scavenger receptor; macrophage-associated antigen; Scavenger receptor cysteine-rich type 1 protein M130; Hemoglobin scavenger receptor
Gene ID	9332
mRNA Refseq	NM_004244
Protein Refseq	NP_004235
MIM	605545
UniProt ID	Q86VB7
Chromosome Location	12p13.3
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; Scavenging of heme from plasma
Function	protein binding; scavenger receptor activity

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