

## Recombinant Human CD163, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 87 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MDKLRMVLHE NSGSADLKLR VVDGVTECSG RLEVKFQGEW GTICDDGWDS<br>DDAAVACKQL GCPTAVTAIG RVNASEGTGH IWLDSVSCHG HESALWQCRH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GGS HCAGTVE VEIQKLVGKV  
 CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET  
 SLWDCKNWQW GGLSCDHYDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD  
 TWGTVCDSDF SLEAASVLCR ELQCGTVVSL LGGAHFGEGS GQIWAEFQC  
 EGHESHLSLC PVAPRPDGTG SHSRDVGVC SRYTQIRLVN GKTPCEGRVE  
 LNILGSWGS CNSHWDMEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR  
 HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS  
 SDPSSSIIE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE GSWG TICDDS  
 WDLNDAHVVC KQLSCGWAIN ATGSAHFGEG TGPIWLDEIN CNGKESHIWQ  
 CHSHGWGRHN CRHKEDAGVI CSEFMSLR LI SENSRETCAG RLEVFYNGAW  
 GSVGKNSMSP ATVG VVCRQL GCADRGDISP ASSDKTVSRH MWVDNVQCPK  
 GPD TLWQCPS SPWK KRLASP SEETWITCAN KIRLQEGNTN CSGRVEIWYG  
 GSWGTV CDDS WDLEDAQVVC RQLGCGSALE AGKEAAFGQG TGPIWLNEVK  
 CKGNETSLWD CPARSWGHSD CGHKEDAAVT 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 H<sub>2</sub>O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CD163 CD163 molecule [ Homo sapiens ]                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>     | CD163                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 9332                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_004244                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>      | NP_004235                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>                 | 605545                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | Q86VB7                                                                                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 12p13.3                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Binding and Uptake of Ligands by Scavenger Receptors; Scavenging of heme from plasma                                                                                                                                                                                                                                                       |
| <b>Function</b>            | protein binding; scavenger receptor activity                                                                                                                                                                                                                                                                                               |

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