

## 32-4404: Recombinant Porcine CD163

**Alternative Name :** CD-163, Hemoglobin scavenger receptor, macrophage-associated antigen, M130, sCD163, CD163, MM130.

### Description

Source : Escherichia Coli. 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. CD163 is an acute phase-regulated receptor which participates in the removal and endocytosis of hemoglobin/haptoglobin complexes by macrophages and thus keeps tissues from free hemoglobin-mediated oxidative damage. Furthermore, CD163 partakes in the uptake and recycling of iron, through endocytosis of hemoglobin/haptoglobin and ensuing breakdown of heme. In addition, CD163 binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent way. CD163 demonstrates greater affinity for complexes of hemoglobin and multimeric haptoglobin of HP-1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP-1S phenotype. Moreover, CD163 stimulates a cascade of intracellular signals which involves tyrosine kinase-dependent calcium recruitment, inositol triphosphate formation and secretion of IL-6 & CSF-1.

### Product Info

<b>Amount :</b>	50 µg
<b>Purification :</b>	"Greater than 95.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE."
<b>Content :</b>	The protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4, containing 4M Urea.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MDKLRMVLHE NSGSADLKL R VVDGVTECSG RLEVKFQGEW GTICDDGWDS DDAVACKQL GCPTAVTAIG RVNASEGTGH IWLDVSCHG HESALWQCRH HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GGS HCAGTVE VEIQKLVGKV CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET SLWDCKNWQW GGLSCDHYDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD TWGTVCDSD F SLEAASVLCR ELQCGTVVSL LGGAHFGEGS GQIWAEFFQC EGHESHLSLC PVAPRPDGT C SHSRDVGVC SRYTQIRLVN GKTPCEGRVE LNILGSWGS L CNSHWDMEDA HVLCCQLKCG VALSIPGGAP FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS SDPSSSIIE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE GSWGTCDD S WDLNDAHVV C KQLSCGWAIN ATGSAHFEGEG TGPWLDEIN CNGKESHIWQ CHSHGWGRHN CRHKEDAGVI CSEFMSLR LI SENSRETCAG RLEV FYNGAW GSVGKNSMSP ATVGVC RQL GCADRGDISP ASSDKTVSRH MWVDNVQCPK GPDTLWQCPS SPWKRLASP SEETWITCAN KIRLQEGNTN CSGRVEI WYG GSWGTVCD S WDLDAQVVC RQLGCGSALE AGKEA AFGQG TGPWLNEVK CKGNETSLWD CPARSWGHS D CGHKEDAAVT CSEIAKSRES LHATGRSHHH HHHHH.

### Application Note

It is recommended to reconstitute the lyophilized CD163 in sterile 18MÅ<sup>2</sup>-cm H<sub>2</sub>O not less than 100Å<sup>2</sup>µg/ml, which can then be further diluted to other aqueous solutions.

