

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

Amount :	50 µg
Purification :	"Greater than 95.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE."
Content :	The protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4, containing 4M Urea.
Storage condition :	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.
Amino Acid :	MDKLRMVLHE NSGSADLKLR VVDGVTECSG RLEVKFQGEW GTICDDGWDS DDAAVACKQL GCPTAVTAIG RVNASEGTGH IWLDVSVSCHG HESALWQCRH HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GSHCAGTVE VEIQKLVGKV CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET SLWDCKNWQW GGLSCDHIDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD TWGTVCDSDF SLEAASVLCR ELQCGTVVSL LGGAHFGEES GQIWAEFQC EGHESHLSLC PVAPRPDGTG SHSRDVGVCV SRYTQIRLVN GKTPCEGRVE LNILGSWGSL CNSHWDMEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS SDPSSSIIE ENGVAICGSG QLRLVDGGGR CAGRVEVYHE GSWGTCDDSD WLDNDAHVVC KQLSCGWAIN ATGSAHFGEF TGPIWLDEIN CNGKESHIWQ CHSHGWGRHN CRHKEDAGVI CSEFMSLRLI SENSRETCAG RLEVFYNGAW GSVGKNSMSP ATVGVVCRQL GCADRGDISP ASSDKTVSRH MWVDNVQCPK GPDTLWQCPS SPWKRLASP SEETWITCAN KIRLQEGNTN CSGRVEIYWG GSWGTVCDSD WLEDAQVVC RQLGCGSALE AGKEAAFQGG TGPIWLNEVK CKGNETSLWD CPARSWGHS DCGHKEDAAVT CSEIAKSRES LHATGRSHHH HHHHH.

Application Note

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

