9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CD163 Porcine

CD163 Porcine Recombinant
CDA0013

Product Overview

Name	CD163 Porcine
Description	
CD163 Porcine Recombinant	
Accession (Primary)	Q2VL90
Synonyms	
CD-163, Hemoglobin scavenger receptor, macrophage-associated antigen, M130, sCD163, CD163, MM130.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH 7.4, containing 4M Urea.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

MDKLRMVLHE NSGSADLKLR VVDGVTECSG RLEVKFQGEW GTICDDGWDS DDAAVACKQL GCPTAVTAIG RVNASEGTGH IWLDSVSCHG HESALWQCRH HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GGSHCAGTVE VEIQKLVGKV CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET SLWDCKNWQW GGLSCDHYDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD TWGTVCDSDF SLEAASVLCR ELQCGTVVSL LGGAHFGEGS GQIWAEEFQC EGHESHLSLC PVAPRPDGTC SHSRDVGVVC SRYTQIRLVN GKTPCEGRVE LNILGSWGSL CNSHWDMEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS SDPSSSIISE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE GSWGTICDDS WDLNDAHVVC KQLSCGWAIN ATGSAHFGEG TGPIWLDEIN CNGKESHIWQ CHSHGWGRHN CRHKEDAGVI CSEFMSLRLI SENSRETCAG RLEVFYNGAW GSVGKNSMSP ATVGVVCRQL GCADRGDISP ASSDKTVSRH MWVDNVQCPK GPDTLWQCPS SPWKKRLASP SEETWITCAN KIRLQEGNTN CSGRVEIWYG GSWGTVCDDS WDLEDAQVVC RQLGCGSALE AGKEAAFGQG TGPIWLNEVK CKGNETSLWD CPARSWGHSD CGHKEDAAVT CSEIAKSRES LHATGRS HHH HHHHH .

Solubility

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

Precautions

CD163 Porcine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q2VL90)