

Product Data Sheet

Product Name: CD163 Porcine
 Cat. No.: GP24134
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CD-163; Hemoglobin scavenger receptor; macrophage-associated antigen; M130; sCD163; CD163; MM130.		
Amino Acid Sequence	<p>MDKLRMVLHE NSGSADLKL R VVDGVTECSG RLEV KFQGEW GTICDDGWDS DDAAVACKQL GCPTAVTAIG RVNASEGTGH IWLD SVSCHG HESALWQCRH HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GGS HCAGTVE VEIQKLVGKV CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET SLWDCKNWQW GGLSCDHYDE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD TWGTVCDSD F SLEAASVLCR ELQCGTVVSL LGGAHFGEGS GQIWAE EFQC EG HESHL SLC PVAPRPDGTC SHSRDVG VVC SRYTQIRLVN GKTPCEGRVE LNILGSWGS L CNSHWD MEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL GASLCSSGQV ASVICSGNQS QTLSPCNSSS SDPSSSIISE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE GSWG TICDDS WDLNDAHVVC KQLSCGWAIN ATGSAHFEGEG TGPIWLDEIN CNGKESHIWQ CHSHGWGRHN CRHKEDAGVI CSEFMSLR LI SENSRETCAG RLEVFYNGAW GSVGKNSMSP ATVG VVCRQL GCADR GDISP ASSDKTVSRH MWVDNVQCPK GPDTLWQCPS SPWKKRLASP SEETWITCAN KIRLQEGNTN CSGRVEI WYG GSWGTVCD DS WDLEDAQVVC RQLGCGSALE AGKEAAFQGG TGPIWLNEVK CKGNETSLWD CPARSWGHSD CGHKEDAAVT CSEIAKSRES LHATGRSHHH HHHHH.</p>		
Solubility	It is recommended to reconstitute the lyophilized CD163 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2μm filtered concentrated solution in 16 ⁺ PBS, pH 7.4, containing 4M Urea.		

Introduction

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

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.

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