

CD163 Human

CD163 Human Recombinant
CDA0012

Product Overview

Name CD163 Human

Description

CD163 Human Recombinant

Accession (Primary) [Q86VB7](#)

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 1xPBS, 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

MDKLRMVLHE NSGSADLKL R VVDGVTECSG RLEV KFQGEW GTICDDGWDS DDAAVACKQL GCPTAVTAIG
RVNASEGTGH IWLDSVSCHG HESALWQCRH HEWGKHYCNH NEDAGVTCSD GSDLELRLKG GGS HCAGTVE
VEIQKLVGKV CDRSWGLKEA DVVCRQLGCG SALKTSYQVY SKTKATNTWL FVSSCNGNET SLWDCKNWQW
GGLSCDHYE AKITCSAHRK PRLVGGDIPC SGRVEVQHGD TWGTVCDSD F SLEAASVLCR ELQCGTVVSL
LGGAHFGE GS QIWAEEFQC EGHESHL SLC PVAPRPD GTC SHSRDVGVVC SRYTQIRLVN GKTPCEGRVE
LNILGSWGS L CNSHWD MEDA HVLCQQLKCG VALSIPGGAP FGKGSEQVWR HMFHCTGTEK HMGDCSVTAL
GASLCSSGQV ASVICSGNQS QTLSPCNSSS SDPSSSIISE ENGVACIGSG QLRLVDGGGR CAGRVEVYHE
GSWG TICDDS WDLNDAHVVC KQLSCGWAIN ATGSAHFGE G TGPIWLDEIN CNGKESHIWQ CHSHGWGRHN
CRHKEDAGVI CSEFMSLR LI SENSRETCAG RLEV FYNGAW GSVGKNSMSP ATVG VVCRQL GCADRGDISP
ASSDKTVSRH MWVDNVQCPK GPD TLWQCPS SPWKKRLASP SEETWITCAN KIRLQEGNTN CSGRVEIWYG
GSWGTVCD DS WDLEDAQVVC RQLGCGSALE AGKEA AFGQG TGPIWLNEVK CKGNETSLWD CPARSWGHSD
CGHKEDAAVT CSEIAKSRES LHATGRS HHH HHHHH .

Solubility

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

Precautions

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

Target Information: ([Q86VB7](#))