
Product Data Sheet

Product Name: CD163 Human

Cat. No.: GP24133

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms CD163 Molecule; Hemoglobin Scavenger Receptor; CD163 Antigen; M130; Scavenger Receptor Cysteine-Rich Type 1 Protein M130; Macrophage-Associated Antigen; SCARI1; MM130;CD163.

SSLGGTDKEL RLVDGENKCS GRVEVKVQEE WGTVCNNGWS MEAVSVICNQ
 LGCPTAIKAP GWANSSAGSG RIWMDHVSCR GNESALWDCK HDGWGKHSNC
 THQQDAGVTC SDGSNLEMRL TRGGNMCSGR IEIKFQGRWG TVCDDNFNID
 HASVICRQLE CGSAVSFSGS SNFGEGSGPI WFDDLICNGN ESALWNCKHQ
 GWGKHNCDDHA EDAGVICSKG ADLSLRLVDG VTECSGRLEV RFQGEWGTIC
 DDGWDSYDAA VACKQLGCPT AVTAIGRVNA SKGFGHIWLD SVSCQGHEPA
 IWQCKHHEWG KHYCNHNEDA GVTCSDGSDL ELRLRGGGSR CAGTVEVEIQ
 RLLGKVCDRG WGLKEADVVC RQLGCGSALK TSYQVYSKIQ ATNTWLFLSS
 CNGNETSLWD CKNWQWGGLT CDHYEEAKIT CSAHREPLRV GGDIPCSGRV
 EVKHGDTWGS ICSDDFSLEA ASVLCRELQC GTVVSILGGA HFGEGNGQIW
 AEEFQCEGHE SHLSLCPVAP RPEGTCSHSR DVGVVCSRYT EIRLVNGKTP
 CEGRVELKTL GAWGSLCNSH WDIEDAHVLC QQLKCGVALS TPGGARFGKG
 NGQIWRHMFH CTGTEQHMGD CPVTALGASL CPSEQVASVI CSGNQSQTLS
 SCNSSSLGPT RPTIPEESAV ACIESGQLRL VNGGGRCAGR VEIYHEGSWG
 TICDDSWDLS DAHVVCRLQG CGEAINATGS AHFGEGTGPI WLDEMKCNGK
 ESRIWQCHSH GWGQQNCRHK EDAGVICSEF MSLRLTSEAS REACAGRLEV
 FYNGAWGTVG KSSMSETTVG VVCRQLGCAD KGKINPASLD KAMSIPMWVD
 NVQCPKGPDT LWQCPSSPWE KRLASPSEET WITCDNKIRL QEGPTSCSGR
 VEIWHGGSWG TVCDDSWDLD DAQVVCQQLG CGPALKAFKE AEFQGTGPI
 WLNEVKCKGN ESSLWDCPAR RWGHSECGHK EDAAVNCTDI SVQKTPQKAT
 TGRSSRQSSH HHHHH

Amino Acid
Sequence

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

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Formulation CD163 protein solution (0.5mg/ml) contains phosphate Buffered Saline (pH 7.4).

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD163 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 1015 amino acids (42-1050a.a.) and having a molecular mass of 109.8kDa. (Molecular size on SDS-PAGE will appear at approximately 100kDa). CD163 is expressed with an 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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