
Product Data Sheet

Product Name: CD21 Human

Cat. No.: GP26237

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Complement receptor type 2, Cr2, Complement C3d receptor, Epstein-Barr virus receptor, EBV receptor, CD21 antigen, CR2, C3DR, CD21, SLEB9.

ISCGSPPPIL NGRISYYSTP IAVGTVIRYS CSGTFRIDGE KSLLCITKDK
 VDGTWDKPAKCEYFNKYSS CPEPIVPGGY KIRGSTPYRH GDSVTFACKT
 NFSMNGNKSV WCQANNMWGPTLPTCVSVF PLECPALPMI HNGHHTSENV
 GSIAPGLSVT YSCESGYLLV GEKIINCLSSGKWSAVPPTC EEARCKSLGR
 FPNGKVKEPP ILRVGVTANF FCDEGYRLQG PPSSRCVIAGQGVAWTKMPV
 CEEIFCPSP PILNGRHIGN SLANVSYGSI VTYTCDPDPE
 EGVNFILIGESTLRCTVDSQ KTGTWSPAP RCELSTSAVQ CPHPQILRGR
 MVSGQKDRYT YNDTVIFACMFGFTLKGSKQ IRCNAQGTWE PSAPVCEKEC
 QAPPNILNGQ KEDRHMVRFD PGTSIKYSCNPGYVLVGEES IQCTSEGVWT
 PPVPQCKVAA CEATGRQLLT KPQHQFVRPD VNSSCGEGYKLSGSVYQECQ
 GTIPWFMEIR LCKEITCPPP PVIYNGAHTG SSLEDFPYGT
 TVTYTCNPGPERGVEFSLIG ESTIRCTSND QERGTWSPGA PLCKLSLLAV
 QCSHVHIANG YKISGKEAPYFYNDTVTFKC YSGFTLKGSS QIRCKADNTW
 DPEIPVCEKE TCQHVRQSLQ ELPAGSRVELVNTSCQDGYQ LTGHAYQMCQ
 DAENGIWFKK IPLCKVIHCH PPPVIVNGKH TGMMAENFLYGNEVSYECDQ
 GFYLLGEKKL QCRSDSKGHG SWSGPSPQCL RSPPVTRCPN
 PEVKHGYKLNKTHSAYSHND IVYVDCNPGF IMNGSRVIRC HTDNTWVPGV
 PTCIKKAFIG CPPPKTPNGNHTGGNIARF SPGMSILYSC DQGYLLVGEA
 LLLCTHEGTW SQPAPHCKEV NCSSPADMDGIQKGLEPRKM YQYGAVVTLE
 CEDGYMLEGS PQSQCQSDHQ WNPPLAVCRS RVEHHHHHH

Amino Acid Sequence

Formulation The CD21 solution (0.5mg/ml) contains 10% Glycerol and Phosphate Buffered Saline (pH 7.4).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Introduction

CD21 is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. In B-cell ontogeny, CD21 appears after the pre-B-stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells. CD21 expression is also gradually lost after stimulation of B cells in vitro. CD21 functions as receptor for C3d, C3dg and iC3b Complement components, for EBV and for IFN α . CD21 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signal-transduction complex involved in B cell activation.

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

CD21 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 959 amino acids (21-971aa) and having a molecular mass of 105.2kDa. CD21 is fused to an 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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