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**Product Data Sheet**


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Product Name: CD18 Human

Cat. No.: GP22997

Batch No.: 1

**Product Data**

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

**Synonyms** Integrin Subunit Beta 2; Integrin; Beta 2 (Complement Component 3 Receptor 3 And 4 Subunit); Complement Component 3 Receptor 3 And 4 Subunit; CD18; MFI7; Integrin; Beta 2 (Antigen CD18 (P95); Lymphocyte Function-Associated Antigen 1; Macrophage Antigen 1 (Mac-1) Beta Subunit); Cell Surface Adhesion Glycoprotein (LFA-1/CR3/P150;959 Beta Subunit Precursor); Cell Surface Adhesion Glycoproteins LFA-1/CR3/P150;95 Subunit Beta; Leukocyte-Associated Antigens CD18/11A; CD18/11B; CD18/11C; Leukocyte Cell Adhesion Molecule CD18; Complement Receptor C3 Beta-Subunit; Complement Receptor C3 Subunit Beta; Integrin Beta Chain; Beta 2; CD18 Antigen; LFA-1; MAC-1; LCAMB; MF17; LAD; CD18.

**Amino Acid Sequence** QECTKFKVSS CRECIESGPG CTWCQKLNFT GPGDPDSIRC DTRPQLLMRG CAADDIMDPT SLAETQEDHN GGQKQLSPQK VTLYLRPGQA AAFNVTFERRA KGYPIDLYYL MDLSYSMLDD LRNVKKLGGD LLRALNEITE SGRIGFGSFV DKTVLPFVNT HPDKLRNPCP NKEKECQPPF AFRHVLKLTN NSNQFQTEVG KQLISGNLDA PEGGLDAMMQ VAACPEEIGW RNVTRLLVFA TDDGFHFAGD GKLGAILTPN DGRCHLEDNL YKRSNEFDYP SVGQLAHKLA ENNIQPIFAV TSRMVKTYEK LTEIIPKSAV GELSESSNV VQLIKNAYNK LSSRVFLDHN ALPDTLKVTY DSFCSNGVTH RNQPRGDCDG VQINVPITFQ VKVTATECIQ EQSFVIRALG FTDIVTVQVL PQCECRCRDQ SRDRSLCHGK GFLECGICRC DTGYIGKNCE CQTQGRSSQE LEGSCRKDNN SIICSLGDC VCGQCLCHTS DVPGKLIYGQ YCECDTINCE RYNGQVCGGP GRGLCFCGKC RCHPGFEGSA CQCERTTEGC LNPRRVECSG RGRRCRCNVCE CHSGYQLPLC QECPCPSPC GKYISCAECL KFEKGPFGKN CSAACPGLQL SNNPVKGRTC KERDSEGCWV AYTLEQQDGM DRYLIYVDES RECVAGPNLE HHHHHH

**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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Formulation CD18 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

### Introduction

CD18 (ITGB2 or integrin beta-2) is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. CD18 may be a member of an extended family of cell surface molecules including the fibronectin binding protein. In addition, CD18 is a complement receptor type 3 (CR3). CD18 triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated 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

CD18 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 686 amino acids (23-700 a.a.) and having a molecular mass of 75.9kDa (Migrates at 70-100kDa on SDS-PAGE under reducing conditions). CD18 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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