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**Product Data Sheet**


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Product Name: CD5 Human, Sf9

Cat. No.: GP23009

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms CD5 Molecule; Lymphocyte Antigen T1/Leu-1; CD5 Antigen (P56-62); LEU1; T-Cell Surface Glycoprotein CD5; CD5 Antigen; T1.

Amino Acid Sequence  
 ADPEFRLSWY DPDFQARLTR SNSKCQGQLE VYLKDGWHMV CSQSWGRSSK  
 QWEDPSQASK VCQRLNCGVP LSLGPFLVTY TPQSSIICYG QLGSFSNCSH  
 SRNDMCHSLG LTCLEPQKTT PPTTRPPPTT TPEPTAPPRL QLVAQSGGQH  
 CAGVVEFYSG SLGGTISYEA QDKTQDLENFLC>NNLQCGSF LKHLPETEAG  
 RAQDPGEPRE HQPLPIQWKI QNSSCTSLEH CFRKIKPQKS GRVLALLCSG  
 FQPKVQSRLV GGSSICEGTV EVRQGAQWAA LCDSSSARSS LRWEEVCREQ  
 QCGSVNSYRV LDAGDPTSRG LFCPHQKLSQ CHELWERNYSY CKKVFTVCQD  
 PNPHHHHHH.

Formulation CD5 protein solution (0.5mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.

**Introduction**

CD5 is a suitable immunohistochemical marker for T-cells, though not as sensitive as CD3. Approximately 76% of T-cell neoplasms are reported to express CD5, and it is also observed in chronic lymphocytic leukemia, hairy cell leukemia, and mantle cell lymphoma cells. CD5 is commonly lost in cutaneous T-cell lymphoma, and its deficiency can be used as an indicator of malignancy in this condition. CD5's absence in T cell acute lymphoblastic leukemia, though relatively rare, is linked with a poor prognosis. CD5 serves as a receptor in regulating T-cell proliferation.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CD5 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 359 amino acids (25-372a.a.) and having a molecular mass of 40kDa (Molecular size on SDS-PAGE will appear at approximately 40-57 kDa). CD5 is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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