
Product Data Sheet

Product Name: CD5 Human
 Cat. No.: GP23008
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD5 Molecule; CD5; LEU1; CD5 Antigen (P56-62); Lymphocyte Antigen T1/Leu-1; T1; T-Cell Surface Glycoprotein CD5; CD5 Antigen.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSRLSWYDP DFQARLTRSN SKCQGQLEVY LKDGWHMVCS QSWGRSSKQW EDPSQASKVC QRLNCGVPLS LGPFLVITYP QSSIICYGQL GSFSNCSHSR NDMCHSLGLT CLEPQKTTTP TTRPPPTTTP EPTAPPRLQL VAQSGGQHCA GVVEFYSGSL GGTISYEAQD KTQDLENFLC NNLQCGSFLK HLPETEAGRA QDPGEPREHQ PLPIQWKIQN SSCTSLEHCF RKIKPQKSGR VLALLCSGFQ PKVQSRLVGG SSICEGTVEV RQGAQWAALC DSSSARSSLR WEEVCREQQC GSVNSYRVLD AGDPTSRGLF CPHQKLSQCH ELWERNZYCK KVFVTCQDPN P.		
Formulation	The CD5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

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 E.coli is a single, non-glycosylated polypeptide chain containing 371 amino acids (25-372) and having a molecular mass of 41.0 kDa. CD5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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