

PRODUCT INFORMATION

Target	CD5
Synonyms	CD5, LEU4131, T1, T-cell Surface Glycoprotein CD5, Lymphocyte Antigen CD5, CD5 Molecule, CD5 Antigen
Description	Recombinant Cynomolgus CD5 protein with C-terminal 10×His tag
Delivery	In STOCK
Uniprot ID	XP_045227874.2
Expression Host	HEK293
Tag	C-10×His tag
Molecular Characterization	CD5(Arg25-Ser386)+10×His tag
Molecular Weight	The protein has a predicted molecular mass of 41.1 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	CD5 is a type I transmembrane glycoprotein belonging to the scavenger receptor cysteine-rich (SRCR) superfamily. It contains three extracellular SRCR domains, a single transmembrane region, and a cytoplasmic domain involved in intracellular signaling. CD5 is primarily expressed on T cells, thymocytes, and a subset of B cells. It functions as an immunoregulatory receptor that modulates T-cell receptor and B-cell receptor signaling, thereby influencing lymphocyte activation, differentiation, survival, and immune tolerance. CD5 is also commonly expressed in chronic lymphocytic leukemia, small lymphocytic lymphoma, and several T-cell malignancies, making it a useful marker and potential therapeutic target in immunology and hematological cancer research.
Usage	Research use only
Conjugate	Unconjugated



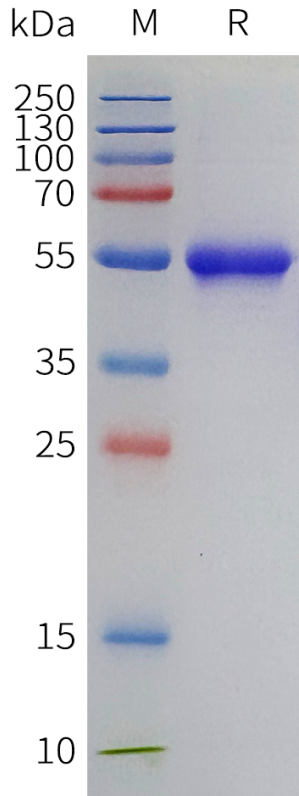


Figure 1. Cynomolgus CD5 Protein, His Tag on SDS-PAGE under reducing condition.

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