

## CD5 Protein, Rhesus macaque, Recombinant (His & Avi)

### General Information

Synonyms:	LEU1;T1;CD5;CD5 antigen;CD5 molecule
Protein Construction:	Arg25-Pro375
Species:	Rhesus
Expression Host:	HEK293 Cells
Accession:	F6V5Q9
Molecular Weight:	41.7 kDa (predicted). Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Rhesus macaque CD5, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD5 Antibody, hFc Tag with the EC50 of 5.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CD5: a type I transmembrane protein found on T cells, thymocytes, and some B cells that is a ligand for CD72 and is involved in cellular activation or adhesion; expressed in B-cell chronic lymphocytic leukemia and T-cell lymphoma.

Reference

Jevremovic, D., et al. (2010). CD5 B-cell lymphoproliferative disorders: Beyond chronic lymphocytic leukemia and mantle cell lymphoma. *Leukemia Research*, 34(9), 1235-1238.

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