

## CD8 alpha Protein, Human, Recombinant (HEK293, His)

### General Information

Synonyms:	Lyt-2;CD8a;p32;MAL;OKT8 T-cell antigen;CD8
Protein Construction:	Ser22-Asp182
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01732-1
Molecular Weight:	18.70 kDa (Predicted); 28-35 kDa (Reducing condition due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human CD8 alpha, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-CD8 Antibody, hFc Tag with the EC50 of 10.3 ng/ml determined by ELISA
Purity:	> 95% as determined by Bis-Tris PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

CD8 alpha enhances the responses of antigen-specific CTL activated through TCR through binding MHC class I, favoring lipid raft partitioning of TCR, and inducing intracellular signaling. CD8 alpha is also found on dendritic cells and rat macrophages, but whether CD8 alpha enhances responses of a partner receptor, like TCR, to activate these cells is not known.

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