

CD8 alpha Protein, Human, Recombinant (aa 22-182, His & Avi), Biotinylated

General Information

Synonyms:	Leu2;CD8 α /CD8A;MAL;Lyt-2;OKT8 T-cell antigen;CD8a molecule;p32;CD8a;CD8
Protein Construction:	Ser22-Asp182
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01732-1
Molecular Weight:	20.5 kDa (predicted). Due to glycosylation, the protein migrates to 30-38 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Anti-CD8 Antibody, hFc Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human CD8 alpha, His Tag with the EC50 of 4.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m 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 μ g/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.

Reference

Gibbings DJ, et al. CD8 alpha is expressed by human monocytes and enhances Fc gamma R-dependent responses. BMC Immunol. 2007 Aug 1;8:12. doi: 10.1186/1471-2172-8-12. PMID: 17678538; PMCID: PMC2000912.

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