

## CD8A & CD8B Heterodimer Protein, Mouse, Recombinant (His & Flag)

### General Information

Protein Construction: Lys28-Tyr196(CD8 alpha) acidic tail & Leu22-Thr175(CD8 beta) basic tail

Species: Mouse

Expression Host: HEK293 Cells

Accession: P01731(CD8 alpha)&P10300(CD8 beta)

Molecular Weight: 24.80 kDa (CD8 alpha) and 23.17 kDa (CD8 beta) (Predicted); 32-38 kDa (CD8 alpha) and 42-50 kDa (CD8 beta) (Due to glycosylation)

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

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 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 sterile deionized 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:

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 alphaβ (CD8αβ) is a heterodimeric form of CD8. CD8α is required for surface expression of CD8β. The extracellular IgV-like domain of CD8α interacts with the α3 portion of the class I MHC molecule. CD8αβ is expressed on human peripheral T cells and functions as a coreceptor and can greatly increase the sensitivity and breadth of antigen recognition by CD8+ peripheral T cells bearing TCR.

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