

# Mouse CD8 alpha&beta Heterodimer Protein

Cat. No. CD8-MM1AB

## Description

<b>Source</b>	Recombinant Mouse CD8 alpha&beta Heterodimer Protein is expressed from HEK293 with His tag and Flag tag at the C-terminus. It contains Lys28-Tyr196(CD8 alpha) acidic tail and Leu22-Thr175(CD8 beta) basic tail.
<b>Accession</b>	P01731(CD8 alpha)&P10300(CD8 beta)
<b>Molecular Weight</b>	The protein has a predicted MW of 24.80 kDa (CD8 alpha) and 23.17 kDa (CD8 beta). Due to glycosylation, the protein migrates to 32-38 kDa (CD8 alpha) and 42-50 kDa (CD8 beta) based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

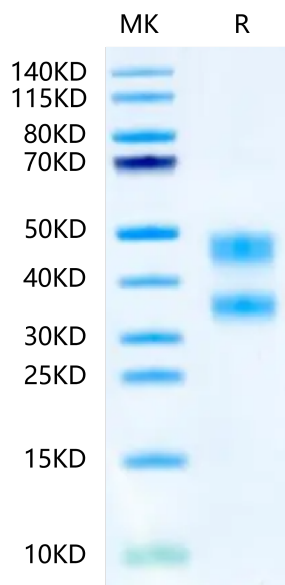
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

CD8 alpha&beta (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.

## Assay Data

### Bis-Tris PAGE



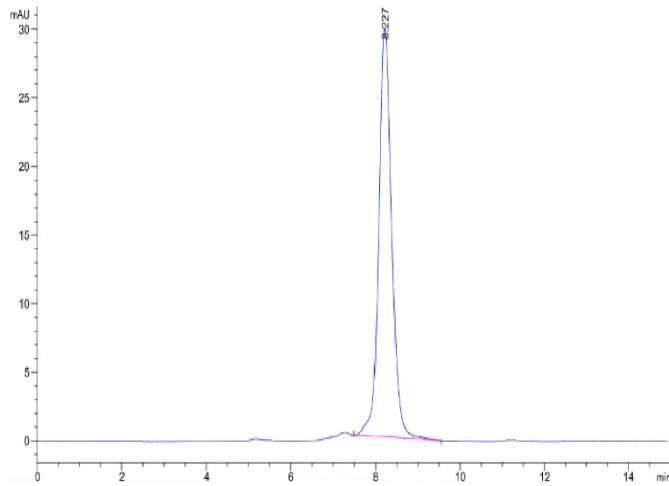
Mouse CD8 alpha&beta Heterodimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data



The purity of Mouse CD8 alpha&beta Heterodimer is greater than 95% as determined by SEC-HPLC.