

Rev03  
 Update: Aug,08,2025

**DATASHEET**

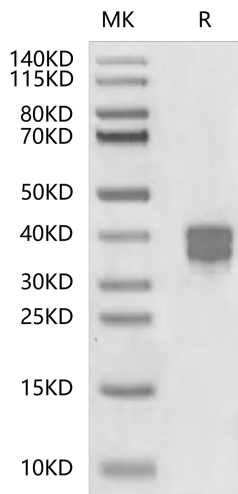
# CD8 alpha&beta Heterodimer, His & Flag, Human

Cat. No.: Z04227

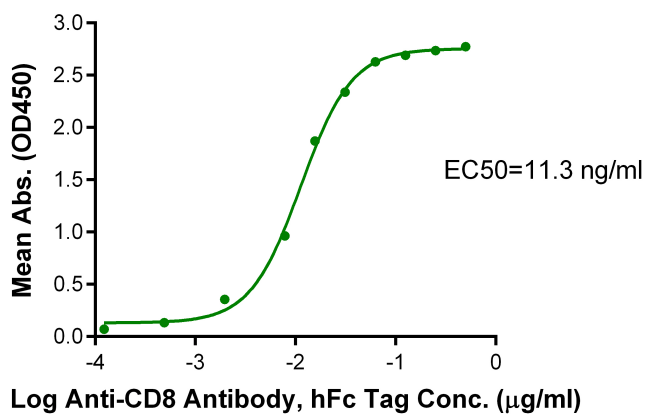
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>CD8 alpha &amp; beta Heterodimer [Ser22-Asp182 (CD8 alpha) acidic tail and Leu22-Pro170 (CD8 beta) basic tail]</b>            Accession # P01732-1 (CD8 alpha) &amp; P10966-1 (CD8 beta)         </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;">His</div> <div style="background-color: #4f81bd; color: white; padding: 5px; text-align: center;">Flag</div> </div> <p style="text-align: center; margin-top: 5px;">N-term <span style="float: right;">C-term</span></p>
<b>Purity</b>	<p>&gt; 95% as determined by Bis-Tris PAGE</p> <p>&gt; 95% as determined by HPLC</p>
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized CD8 alpha&beta Heterodimer, His & Flag, Human at 2µg/ml (100µl/well) on the plate can bind Anti-CD8 Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	23.54 kDa (CD8 alpha) and 22.62 kDa (CD8 beta)
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 26-28 kDa (CD8 alpha) and 28-32 kDa (CD8 beta) on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).
<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 &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

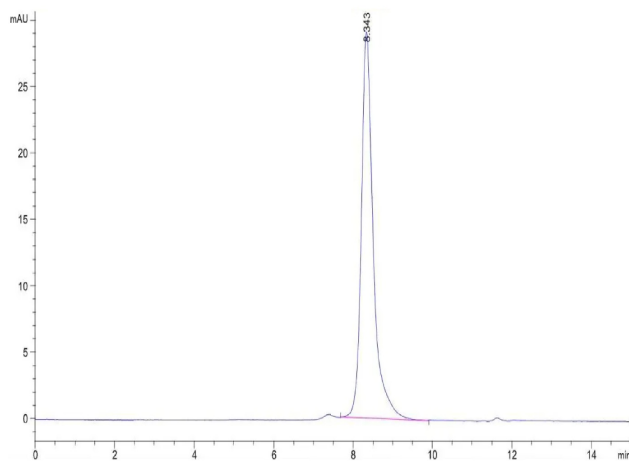
## Examples



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



Immobilized CD8 alpha&beta Heterodimer, His & Flag, Human, His Tag at 2 µg/ml (100 µL/well) on the plate. Dose response curve for Anti-CD8 Antibody, hFc Tag with the EC50 of 11.3 ng/ml determined by ELISA.



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

## Background

**Target Background :** CD8 alpha&beta (CD8 $\alpha\beta$ ) is a heterodimeric form of CD8. CD8 $\alpha$  is required for surface expression of CD8 $\beta$ . The extracellular IgV-like domain of CD8 $\alpha$  interacts with the  $\alpha 3$  portion of the class I MHC molecule. CD8 $\alpha\beta$  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.

**Synonyms :** CD8 alphaβ CD8A&CD8B

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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