

Rev03  
 Update: Aug,08,2025

**DATASHEET**

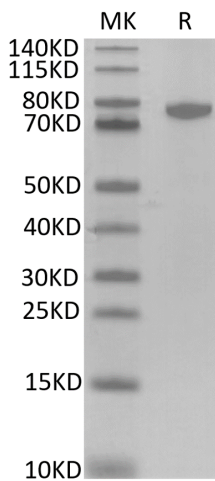
# CD4/LEU3 hFc Chimera, Human

Cat. No.: Z04014

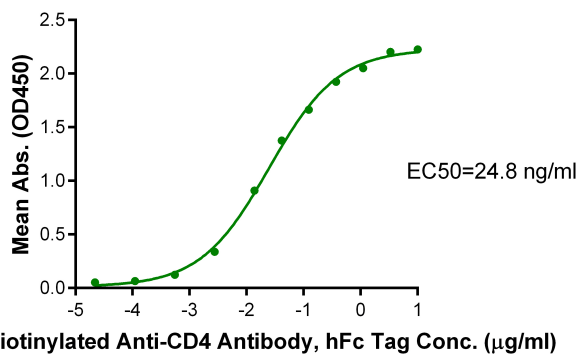
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>CD4/LEU3 (Lys26-Trp390)</b>  <b>Accession # P01730</b> </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center;"> <b>hFc</b> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
<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 CD4/LEU3 hFc Chimera, Human at 0.5µg/ml (100µl/well) on the plate can bind Biotinylated Anti-CD4 Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	67.5 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, 100mM L-arginine(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.

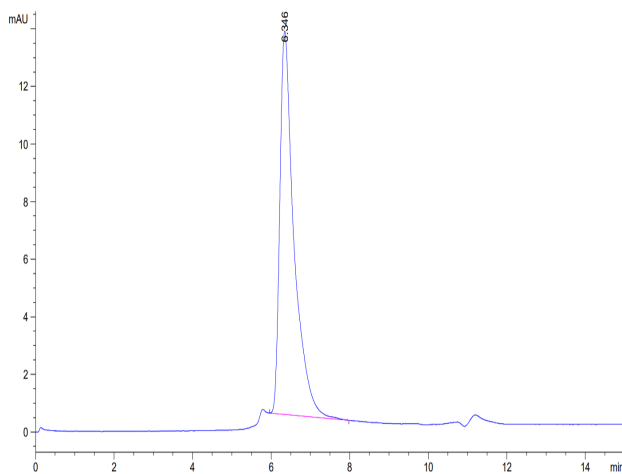
## Examples



CD4/LEU3 hFc Chimera, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized CD4/LEU3 hFc Chimera, Human, hFc Tag at 0.5 µg/ml (100 µl/well) on the plaCD4/LEU3 hFc Chimera, Humante. Dose response curve for Biotinylated Anti-CD4 Antibody, hFc Tag with the EC50 of 24.8 ng/ml determined by ELISA.



The purity of CD4/LEU3 hFc Chimera, Human is greater than 95% as determined by SEC-HPLC.

## Background

**Target Background :** CD4, also known as L3T4, T4, and W3/25, is an approximately 55 kDa type I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification of T cell populations. Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class II molecule:peptide complex.

**Synonyms :** CD4 antigen (p55); CD4 molecule; CD4 receptor; CD4; CD4mut; EU3

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

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