

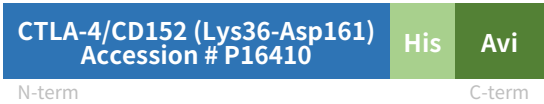
Rev04  
 Update: Aug,20,2025

**DATASHEET**

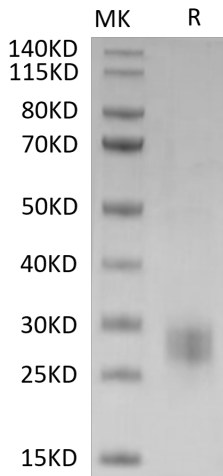
# CTLA-4/CD152[Biotin], His & Avi, Human

Cat. No.: Z04436

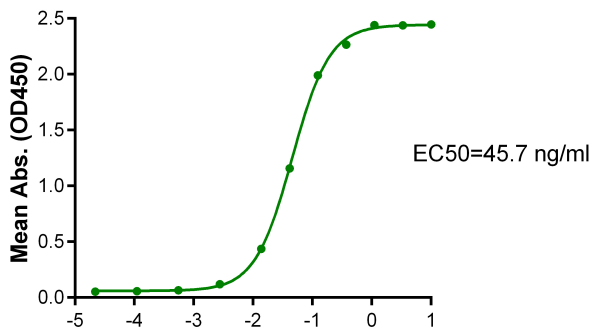
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	 <p>CTLA-4/CD152 (Lys36-Asp161) Accession # P16410</p> <p>N-term C-term</p>
<b>Conjugate</b>	Biotin
<b>Purity</b>	> 95% as determined by BisTris PAGE
<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. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	16.3 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm 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 for 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

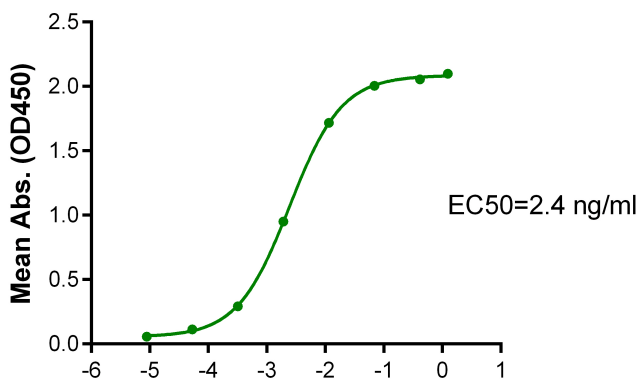


CTLA-4/CD152[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Log Biotinylated Human CTLA-4, His Tag Conc. (µg/ml)

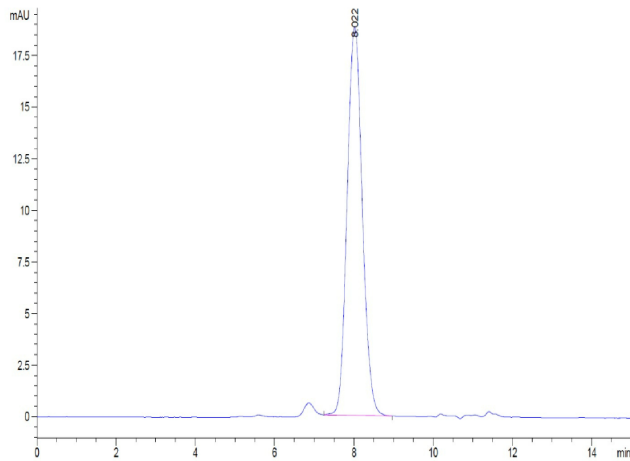
Immobilized Anti-CTLA-4 Antibody, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for CTLA-4/CD152[Biotin], His & Avi, Human, His Tag with the EC50 of 45.7 ng/ml determined by ELISA.



Log Human B7-1, hFc Tag Conc. (µg/ml)

Immobilized CTLA-4/CD152[Biotin], His & Avi, Human His Tag at 1 µg/ml (100 µl/well) on the streptavidin precoated plate (5 µg/ml). Dose response curve for Human B7-1, hFc Tag with the EC50 of 2.4 ng/ml determined by ELISA.

The purity of CTLA-4/CD152[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.



## Background

**Target Background :** CTLA-4 (cytotoxic T-lymphocyte-associated protein 4), also known as CD152, is a protein receptor that, functioning as an immune checkpoint, downregulates immune responses. CTLA4 is constitutively expressed in regulatory T cells but only upregulated in conventional T cells after activation – a phenomenon which is particularly notable in cancers. It acts as an 'off' switch when bound to CD80 or CD86 on the surface of antigen-presenting cells.

**Synonyms :** CTLA4; CD152; ICOS; CELIAC3; GRD4; GSE; ALPS5; IDDM12

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

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