

# Recombinant Human CTLA-4/CD152 Protein

Catalog No.: RP00503 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1493	P16410-1

### Tags

C-hFc

### Synonyms

CTLA4; CD152; ICOS; CELIAC3; GRD4;  
GSE; ALPS5; IDDM12

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
40.1 kDa	50-55 kDa

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

## Basic Information

### Description

Recombinant Human CTLA-4/CD152 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys36-Asp161) of Human CTLA-4/CD152 (Accession #P16410-1) fused with a C-hFc tag at the C-terminus.

### Bio-Activity

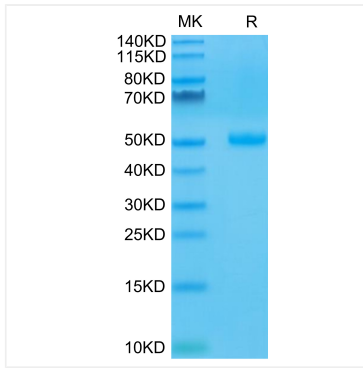
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

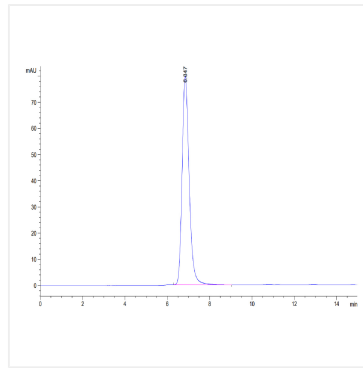
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

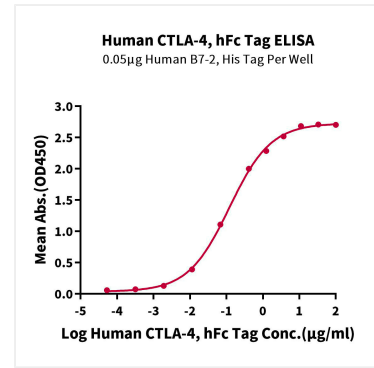
## Validation Data



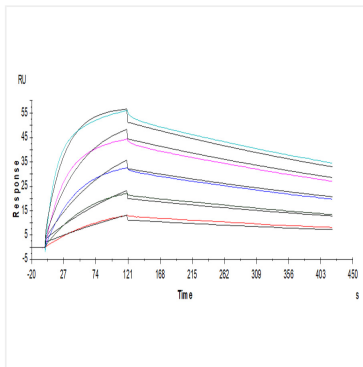
Human CTLA-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human CTLA-4 is greater than 95% as determined by SEC-HPLC.



Immobilized Human B7-2, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the  $EC_{50}$  of 0.12 µg/mL determined by ELISA (QC Test).



Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA-4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).