

# Biotinylated Recombinant Human CTLA-4/CD152 Protein

Catalog No.: RP00505B Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 1493 P16410

**Tags** C-His&Avi

**Synonyms** 

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

## **Product Information**

Source Purification

HEK293 cells  $\geq$  95 % as determined by SDS-PAGE; $\geq$  95 % as

determined by HPLC.

Calculated MW Observed MW

16.3 kDa 25-30 kDa

**Endotoxin** 

< 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

6	400-999-6126
$\times$	cn.market@abclonal.com.cn

## **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**

Biotinylated 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) fused with a C-His&Avi tag at the C-terminus.

## **Bio-Activity**

#### **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## **Storage**

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

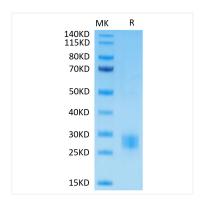
After reconstitution, the protein solution is stable at -20  $^{\circ}\text{C}$  for 3 months, at 2-8  $^{\circ}\text{C}$  for up to 1 week.

Avoid repeated freeze/thaw cycles.

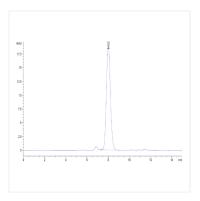
## **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

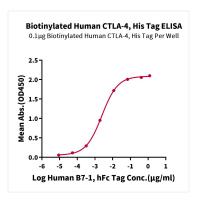
## **Validation Data**



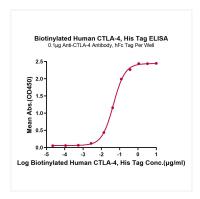
Biotinylated Recombinant Human CTLA-4/CD152 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Biotinylated Human CTLA-4, His Tag at 1  $\mu$ g/mL (100  $\mu$ L/well) on the streptavidin precoated plate (5  $\mu$ g/mL). Dose response curve for Human B7-1, hFc Tag with the EC<sub>50</sub> of 2.4ng/mL determined by ELISA (QC Test).



Immobilized Anti-CTLA-4 Antibody, hFc Tag at 1  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Biotinylated Human CTLA-4, His Tag with the EC<sub>50</sub> of 45.7ng/mL determined by ELISA.