

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; ALP55; IDDM12

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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

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.

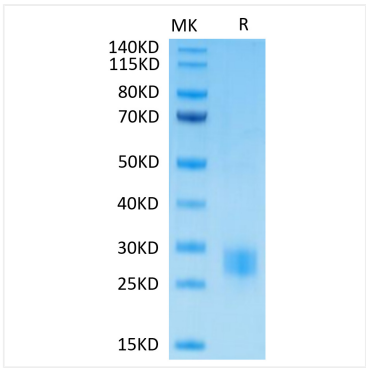
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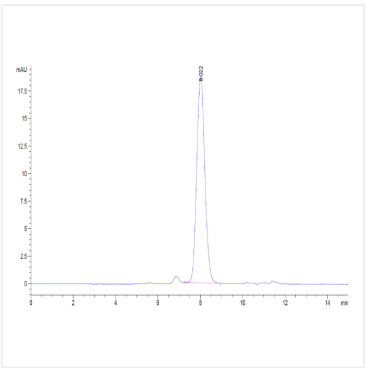
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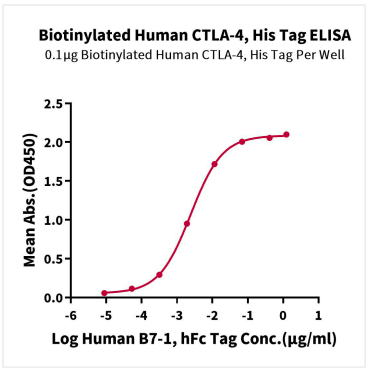
Validation Data



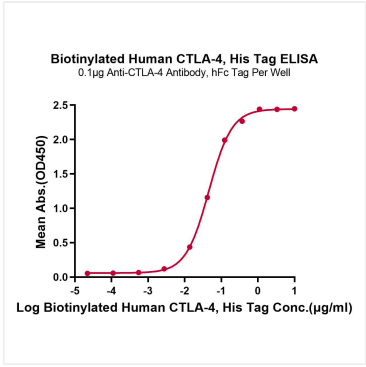
Biotinylated Recombinant Human CTLA-4/CD152 Protein was determined by Tris-Bis PAGE under reducing conditions.



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 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 2.4ng/mL determined by ELISA (QC Test).



Immobilized Anti-CTLA-4 Antibody, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human CTLA-4, His Tag with the EC₅₀ of 45.7ng/mL determined by ELISA.