Biotinylated Recombinant Human CTLA-4/CD152 Protein

Catalog No.: RP00505B

www.abclonal.com

Sequence Information

Species	Gene ID
Human	1493
Swiss Prot	**Tags**
P16410	C-His&Avi

Synonyms
CTLA4; CD152; ICOS; CELIAC3; GRD4; GSE; ALPS5; 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 stablizer (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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

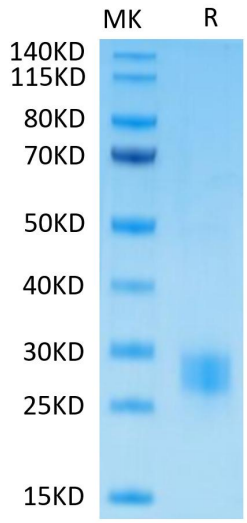
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

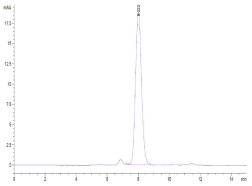
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

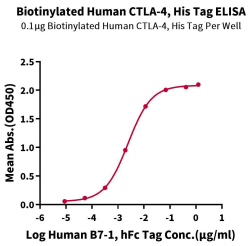
Validation Data



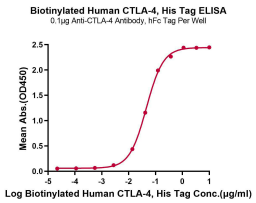
Biotinylated Recombinant Human CTLA-4/CD152 Protein was determined by Tris-Bis PAGE under reducing conditions.



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 EC_{50} 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 EC_{50} of 45.7 ng/mL determined by ELISA.