ABclonal www.abclonal.com

Recombinant Human CTLA-4/CD152 Protein

Catalog No.: RP00503 Recombinant

Sequence Information

Species Gene ID Swiss Prot HEK293 cells 1493 P16410-1

Tags

C-hFc

Synonyms

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

Product Information

Source Purification <I>E. coli</I> > 95% by SDS

> > 95% by SDS-PAGE ; > 95% by

HPLC

Endotoxin

 $< 1 \; \text{EU/}\mu\text{g}$ 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

•

www.abclonal.com

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

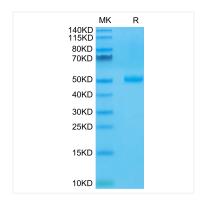
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

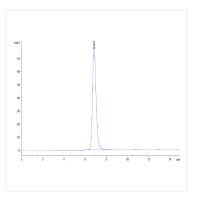
Avoid repeated freeze/thaw cycles.

^{*} For your safety and health, please wear a lab coat and disposable gloves when handling.

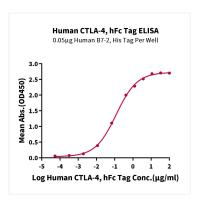
Validation Data



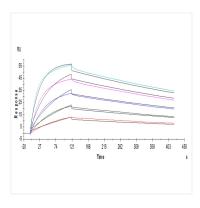
Human CTLA-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human B7-2, His Tag at $0.5 \mu g/mL$ (100 $\mu L/Well$) on the plate. Dose response curve for Human CTLA-4, hFc Tag with the EC₅₀ of 0.12 $\mu g/mL$ 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).