

Recombinant Cynomolgus CTLA-4/CD152 Protein

Catalog No.: RP02636 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102115124	G7PL88-1

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube 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 freeze-thaw cycles.

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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

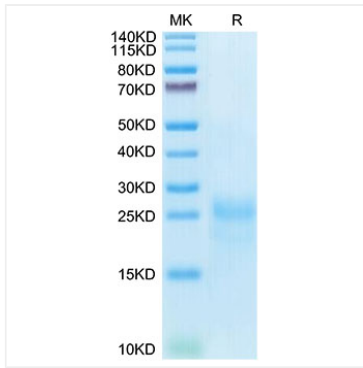
Recombinant Cynomolgus CTLA-4/CD152 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Ala37-Ser160.

Bio-Activity

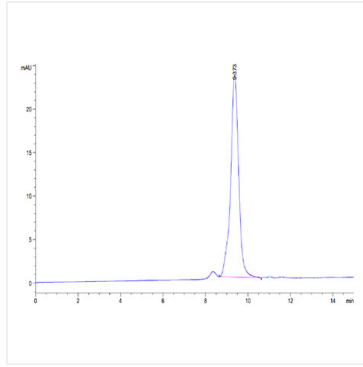
Storage

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.

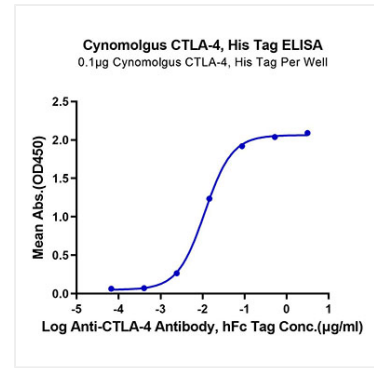
Validation Data



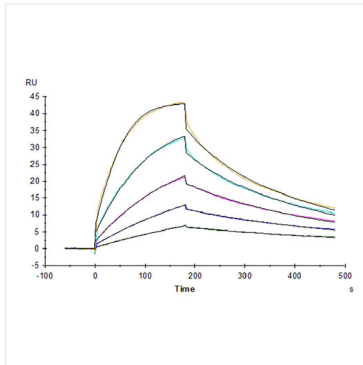
Cynomolgus CTLA-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Cynomolgus CTLA-4, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-CTLA-4 Antibody, hFc Tag with the EC₅₀ of 11.2ng/ml determined by ELISA.



Cynomolgus B7-1, His Tag immobilized on CM5 Chip can bind Cynomolgus CTLA-4, His Tag with an affinity constant of 9.90 nM as determined in SPR assay (Biacore T200).