

Recombinant Mouse CTLA-4/CD152 Protein

Catalog No.: RP01326 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12477	P09793

Tags

C-His

Synonyms

Cd152;Ctla-4;Ly-56;CTLA4

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
14.70 kDa	20-35 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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.

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Background

Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family, and is similar to the T-cell co-stimulatory protein, CD28, both molecules bind to CD80 and CD86, also called B7-1 and B7-2 respectively, on antigen-presenting cells. CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells, CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy.

Basic Information

Description

Recombinant Mouse CTLA-4/CD152 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu36-Asp161) of Mouse CTLA4 (Accession #NP_033973.2) fused with an 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CTLA-4/CD152 at 2μg/mL (100μL/well) can bind Mouse B7-2/CD86 with a linear range of 0.1-51.8 ng/mL.

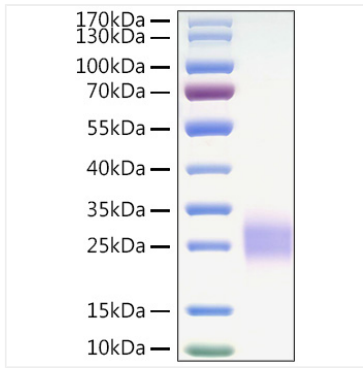
Storage

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

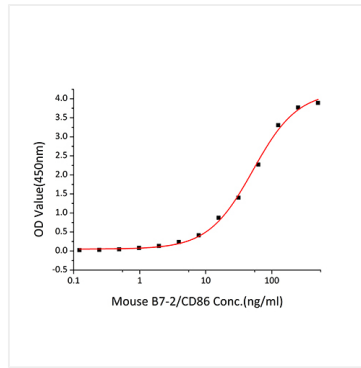
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse CTLA-4/CD152 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30kDa.



Immobilized Mouse CTLA-4/CD152 at 2 μ g/mL (100 μ L/well) can bind Mouse B7-2/CD86 with a linear range of 0.1-51.8 ng/mL.