

Recombinant Rat Ctla4 protein, Fc-tagged

Cat. No. Ctla4-1143R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ctla4 (Ile38-Asp161) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Rat
Source	HEK293
ProteinLength	Ile38-Asp161
Description	CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4) is also known as CD152 (Cluster of differentiation 152), is a protein receptor that downregulates the immune system. CTLA4 is a member of the immunoglobulin superfamily, which is expressed on the surface of Helper T cells and transmits an inhibitory signal to T cells. The protein contains an extracellular V domain, a transmembrane domain, and a cytoplasmic tail. Alternate splice variants, encoding different isoforms. CTLA4 is similar to the T-cell co-stimulatory protein, CD28, and 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 and may be important to their function. Fusion proteins of CTLA4 and antibodies (CTLA4-Ig) have been used in clinical trials for rheumatoid arthritis.
Predicted N Terminal	Ile38
Form	Lyophilized from 0.22

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	µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 40.2 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Ctla4
Official Symbol	Ctla4
Synonyms	CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein 4; soluble form; CD152 antigen; transmembrane form; Cd152; CTLA-4; sCTLA4
Gene ID	63835
mRNA Refseq	NM_031674

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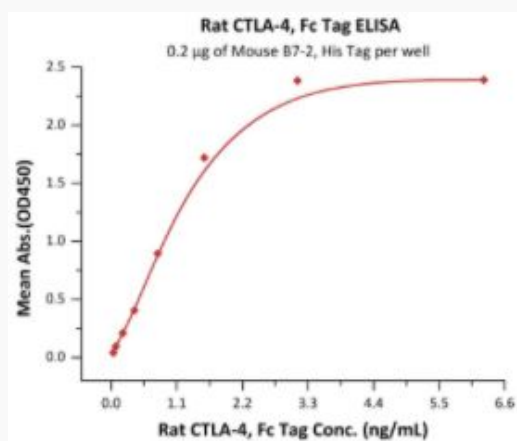
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Protein Refseq NP_113862

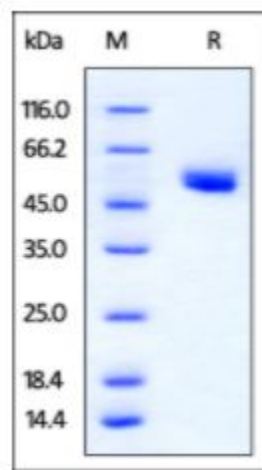
UniProt ID Q62859

**Bioactivity-ELISA of
Ctla4-1143R**



Immobilized Mouse B7-2, His Tag at 2 µg/mL (100 µL/well) can bind Rat CTLA-4, Fc Tag with a linear range of 0.2-3 ng/mL (QC tested).

**SDS-PAGE of Ctla4-
1143R**



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Rat CTLA-4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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