Recombinant Mouse Ctla4 protein, mouse IgG2a Fc-tagged, low endotoxin

Cat. No. Ctla4-4557M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctla4 protein (Glu36-Phe162)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	127
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.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 41.1 kDa. As a result of glycosylation, the protein migrates as 50-66 kDa under reducing (R) condition, and 95-105 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 0.1 EU per ug 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 centigrade 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℃ 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; CD152 antigen; cytotoxic T-lymphocyte-associated antigen 4; Cd152; Ly-56; Ctla-4
Gene ID	12477
mRNA Refseq	NM_009843

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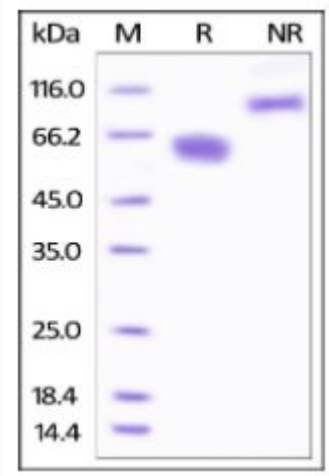
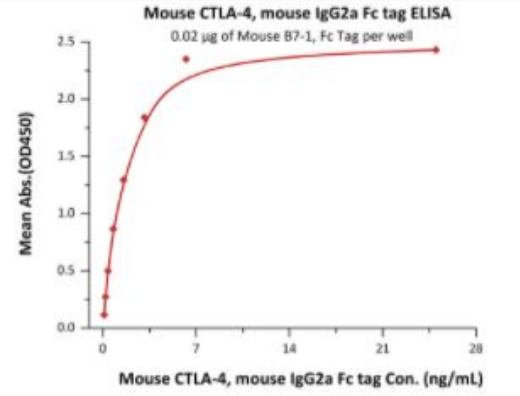
Protein Refseq	NP_033973
UniProt ID	P09793
SDS-PAGE of Ctla4-4557M	 Mouse CTLA-4, mouse IgG2a Fc tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.
Bioactivity-ELISA of Ctla4-4557M	

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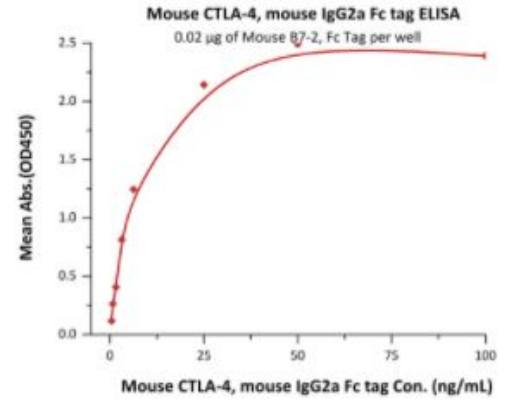
	Immobilized Mouse B7-1, Fc Tag at 0.2μg/mL (100 μL/well) can bind Mouse CTLA-4, mouse IgG2a Fc tag with a linear range of 0.1-3 ng/mL (QC tested).
Bioactivity-ELISA of Ctla4-4557M	 Immobilized Mouse B7-2, Fc Tag at 0.2μg/mL (100 μL/well) can bind Mouse CTLA-4, mouse IgG2a Fc tag with a linear range of 0.4-3 ng/mL (Routinely tested).

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