Active Recombinant Monkey CTLA4 Protein, Fc-tagged

Cat. No. CTLA4-11061M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque CTLA-4, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ala 37 - Ser 160 (Accession # G7PL88-1). In the region Ala 37 - Ser 160, the AA sequence of Cynomolgus and Rhesus macaque CTLA-4 are homologus. This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Ala 37
Species	Monkey
Source	HEK293
ProteinLength	37-160 aa
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.

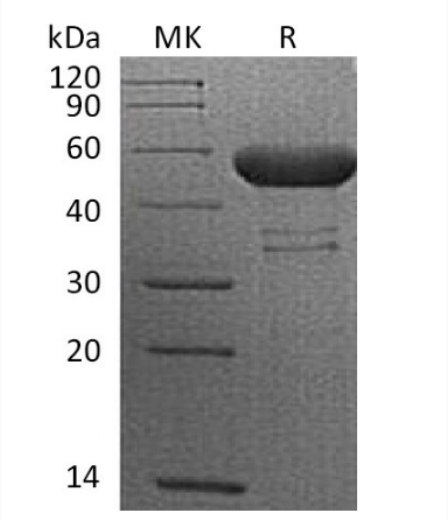
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Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Cynomolgus/Rhesus macaque CTLA-4, Fc Tag at 5 μg/mL (100 μL/well) can bind Cynomolgus/Rhesus macaque B7-1, His Tag with a linear range of 0.039-1.25 μg/mL.
Molecular Mass	The protein has a calculated MW of 39.9 kDa. The protein migrates as 42-50 kDa under reducing (R) condition, and 80-100 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	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. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CTLA4 cytotoxic T-lymphocyte-associated protein 4 [Macaca mulatta]
Official Symbol	CTLA4
Synonyms	CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein

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	4; CD152 protein; cytotoxic T-lymphocyte protein 4 isoform CTLA4-TM; CTLA-4;
Gene ID	705673
mRNA Refseq	NM_001044739
Protein Refseq	NP_001038204
UniProt ID	G7PL88
SDS-PAGE.	

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