

## Recombinant Mouse Ctla4, Fc-His

Cat. No. Ctla4-1717M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Ctla4 was expressed in *NSO cells*. The DNA sequence encoding amino acid residues 37 - 162 of the extracellular domain of mouse CTLA-4 was fused to the Fc region of human IgG1 (with IEGR added at the amino-terminus and 6x his-tag added at the carboxy-terminus).

**Species** Mouse

**Source** Mammalian Cells

**ProteinLength** 37-162 a.a.

**Description** CTLA4 (Cytotoxic T-Lymphocyte Antigen 4) also known as CD152, is a protein which is expressed on the surface of Helper T cells and plays an important regulatory role in the immune system. CTLA4 is a member of the immunoglobulin superfamily, expressed on the surface of Helper T cells. CTLA4 transmits an inhibitory signal to T cells. CTLA4 is potentially therapeutic in auto-immune diseases, such as rheumatoid arthritis, HIV, autoimmune thyroid disease, multiple sclerosis and may also be useful during organ transplantation and cancer treatment.

**Molecular Weight** The predicted molecular weight of Recombinant Mouse CTLA-4 is Mr 41 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 55 kDa.

**State Of Matter** Lyophilized.

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<b>Purity</b>	>97% by SDS Page and analyzed by silver stain.
<b>Formulation</b>	0.2 µm filtered and lyophilized from PBS.
<b>Endotoxin</b>	<1.0 EU/g as determined by the LAL method.
<b>Biological Activity</b>	Measured by its ability to inhibit IL-2 production in Jurkat cells stimulated with 1 µg/ml rhB7-1/Fc in the presence of PHA. The expected ED50 for this effect is 0.1 - 0.4 µg/ml.
<b>Storage And Stability</b>	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ctla4 cytotoxic T-lymphocyte-associated protein 4 [ Mus musculus ]</a>
<b>Synonyms</b>	Ctla4; cytotoxic T-lymphocyte-associated protein 4; Cd152; Ly-56; Ctla-4; CD152 antigen; OTTMUSP00000002168
<b>Gene ID</b>	<a href="#">12477</a>
<b>mRNA Refseq</b>	<a href="#">NM_009843</a>
<b>Protein Refseq</b>	<a href="#">NP_033973</a>
<b>UniProt ID</b>	<a href="#">P09793</a>

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**Chromosome Location** 1 C; 1 30.1 cM

**Pathway** Autoimmune thyroid disease; Cell adhesion molecules (CAMs); T cell receptor signaling pathway

**Structure of murine CTLA4 (CD152).**



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