

## Recombinant Mouse Ctla4, Fc-His

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Ctla4 was expressed in <i>NSO cells</i> . 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).                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Length</b>   | 37-162 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Molecular Weight</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>State Of Matter</b>  | 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>      | Ctla4 cytotoxic T-lymphocyte-associated protein 4 [ <a href="#">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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