# Recombinant Human CTLA4 Protein (Met1-Phe162), HIgG1 Fc-tagged

**Cat. No.** CTLA4-499H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CTLA4 Protein (NP_005205.2) (Met1-Phe162) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the C-terminus. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Met1-Phe162 |
| **Description** | Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family. The ligands or counterreceptors for these two proteins are the B7 family members, CD8 (B7-1) and CD86 (B7-2). 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 play an important role in their functions. CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy. In particular, recent evidence suggests that CD152 is also important in the homeostasis and function of a population of suppressive cells, termed regulatory T cells (Treg). |

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| **Predicted N Terminal** | Lys 36 |
| **Form** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. |
| **Molecular Mass** | The recombinant human CTLA4 consists of 368 amino acids and predicts a molecular mass of 40.7 kDa. |
| **Endotoxin** | < 1.0 EU per μg protein as determined by the LAL method. |
| **Purity** | > 95 % as determined by SDS-PAGE |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70 centigrade. |
| **Storage** | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. 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 mg/ml. Centrifuge the vial at 4℃ before opening to recover the entire contents. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

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| **Gene Name** | CTLA4 cytotoxic T-lymphocyte-associated protein 4 [ Homo sapiens ] |
| **Official Symbol** | CTLA4 |

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| **Synonyms** | CTLA4; CD; CD28; CD152; GSE; ICOS; CD152 isoform; GRD4; CTLA-4; IDDM12; CELIAC3; |
| **Gene ID** | 1493 |
| **mRNA Refseq** | NM_001037631 |
| **Protein Refseq** | NP_001032720 |
| **UniProt ID** | P16410 |

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