

## Recombinant Human CTLA4, Fc Chimera

Cat. No. CTLA4-1913H    Lot. No. (See product label)

### SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b>        | Recombinant Human CTLA-4 produced in <i>E. Coli</i> is a homodimeric, non-glycosylated polypeptide chain containing a total molecular mass of 80 kDa. Each subunit (40kDa) is fused to a polypeptide linker to the Fc portion of Human IgG1. rHuCTLA-4 is purified by proprietary chromatographic techniques.                                                                                                        |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>             | CTLA-4 is expressed in low copy number by T-cells only after activation, but it binds CD28-ligand with approximately 20-fold higher affinity than CD28. A soluble form of the extracellular domain of CTLA-4 has been shown to bind CD28-ligand with high avidity and to suppress T-cell-dependent antibody responses in vivo. Large doses of this soluble protein also suppress responses to a second immunization. |
| <b>Amino Acid Sequence</b>     | The sequence of the first five N-terminal amino acids was determined and was found to be Lys-Ala-Met-His-Val.                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>                    | Purified.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                  | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC.                                                                                                                                                                                                                                                                                                                               |
| <b>Dimers &amp; Aggregates</b> | <1% as determined by silver stained SDS-PAGE gel analysis.                                                                                                                                                                                                                                                                                                                                                           |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>           | < 0.1 ng/g (IEU/g) of rHuCTLA-4.                                                                                                                                                    |
| <b>Protein Content</b>     | Protein quantitation was carried out by two independent methods: 1) UV spectroscopy at 280 nm. 2) Analysis by RP-HPLC, using a standard solution of CTLA-4 as a Reference Standard. |
| <b>Application</b>         | 1) Molecular standard (Western, ELISA) in studying secreted BMP-4. 2) Preparing antibodies for BMP-4 monomer. 3) Molecule standard in detecting secreted BMP-4 in reduced SDS-PAGE. |
| <b>Biological Activity</b> | rHuCTLA-4 is fully biologically active when compared to standards.                                                                                                                  |
| <b>Storage</b>             | -20°C, avoid freezing and thawing cycles after reconstitution.                                                                                                                      |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | CTLA4 cytotoxic T-lymphocyte-associated protein 4 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>       | CTLA4; cytotoxic T-lymphocyte- associated protein 4; CD; CD28; CD152; CD152; CELIAC3; CTLA-4; celiac disease 3; Cytotoxic T-lymphocyte protein 4; cytotoxic T-lymphocyte antigen 4; cytotoxic T-lymphocyte-associated antigen 4; cytotoxic T-lymphocyte-associated serine esterase-4; ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4; ICOS; GSE; IDDM12; IDDM12; CTLA-4; OTTHUMP000000163781 |
| <b>Gene ID</b>        | 1493                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>    | NM_001037631                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b> | NP_001032720                                                                                                                                                                                                                                                                                                                                                                                                               |

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|----------------------------|------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 123890                                                                                         |
| <b>UniProt ID</b>          | P16410                                                                                         |
| <b>Chromosome Location</b> | 2q33                                                                                           |
| <b>Pathway</b>             | Autoimmune thyroid disease ; Cell adhesion molecules (CAMs); T cell receptor signaling pathway |
| <b>Function</b>            | Protein binding                                                                                |

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