

Recombinant Human CTLA4, Fc Chimera

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

SPECIFICATION

Product Overview Recombinant Human CTLA-4 produced in *E. Coli* 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.

Species Human

Source E.coli

Description 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.

Amino Acid Sequence The sequence of the first five N-terminal amino acids was determined and was found to be Lys-Ala-Met-His-Val.

Form Purified.

Purity Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC.

Dimers & Aggregates <1% as determined by silver stained SDS-PAGE gel analysis.

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Endotoxin	< 0.1 ng/g (IEU/g) of rHuCTLA-4.
Protein Content	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.
Application	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.
Biological Activity	rHuCTLA-4 is fully biologically active when compared to standards.
Storage	-20°C, avoid freezing and thawing cycles after reconstitution.

GENE INFORMATION

Gene Name	CTLA4 cytotoxic T-lymphocyte-associated protein 4 [Homo sapiens]
Synonyms	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; OTTHUMP00000163781
Gene ID	1493
mRNA Refseq	NM_001037631
Protein Refseq	NP_001032720

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

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