

Recombinant Human Cytotoxic T-lymphocyte-associated Protein 4, Fc-His

Cat. No. CTLA4-1598H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CTLA-4 encoding amino acid residue 37-161 of the extracellular domain was fused to the Fc region of human IgG1 with six his residues added at the carboxy-terminus, cloned into a suitable expression vector and was expressed in <i>Sf 21 cells</i> .
Species	Human
Source	Sf21 Cells
ProteinLength	37-161 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 Human CTLA-4 is Mr 40 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain

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Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Human CTLA-4 was determined by its ability to inhibit IL-2 production by Jurkat cells stimulated with Raji cells or 1 µg/ml rhB7-1/Fc in the presence of PHA. The expected ED50 is typically 2 - 4 µg/ml with Raji cells or 0.1 - 0.4 µg/ml with rhB7-H1/Fc.
Storage And Stability	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	
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
MIM	123890

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UniProt ID	P16410
Chromosome Location	2q33
Pathway	Autoimmune thyroid disease ; Cell adhesion molecules (CAMs); T cell receptor signaling pathway
Function	Protein binding
Structure of murine CTLA4 (CD152).	