

## Active Recombinant Human CTLA4, HlgG1 Fc-tagged, mutant

Cat. No. CTLA4-3258H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The extracellular domain of human CD152 [CTLA-4] (NP\_005205.2) (Ala37-Ser160) is fused to the N-terminus of the Fc region of a mutant human IgG1.

**Species** Human

**Source** CHO

**ProteinLength** 37-160 a.a.

**Description** This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases.

**Form** Lyophilized from 0.2µm-filtered solution in PBS.

**Bio-activity** Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells.

**Molecular Mass** 39 KDa (monomer)

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<b>AA Sequence</b>	Ala37-Ser160
<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CTLA4 cytotoxic T-lymphocyte-associated protein 4 [ Homo sapiens ]</a>
<b>Official Symbol</b>	CTLA4
<b>Synonyms</b>	CTLA4; cytotoxic T-lymphocyte-associated protein 4; celiac disease 3 , CELIAC3; cytotoxic T-lymphocyte protein 4; CD; CD28; CD152; GSE; ICOS; CD152 isoform; celiac disease 3; cytotoxic T-lymphocyte antigen 4; cytotoxic T-lymphocyte-associated antigen 4; cytotoxic T-lymphocyte-associated serine esterase-4; cytotoxic T lymphocyte associated antigen 4 short spliced form; ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4; GRD4; CTLA-4; IDDM12; CELIAC3;
<b>Gene ID</b>	<a href="#">1493</a>
<b>mRNA Refseq</b>	<a href="#">NM_001037631</a>

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<b>Protein Refseq</b>	NP_001032720
<b>UniProt ID</b>	P16410
<b>Chromosome Location</b>	2q33
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CTLA4 inhibitory signaling, organism-specific biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
<b>Function</b>	protein binding;

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