

Active Recombinant Human CTLA4, Fc-tagged, Biotinylated

Cat. No. CTLA4-593H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CTLA4 ECD is expressed as a 138-amino acid protein consisting of Lys36 - Asp161 region of CTLA4 (UniProt accession #Q16410) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition. It contains 2 potential N-linked glycosylation sites.
Species	Human
Source	Human Cells
ProteinLength	36-161 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds to human B7 family ligands, CD80/B7-1 and CD86/B7-2, and anti-CTLA4 monoclonal antibody. Inhibit IL-2 secretion in stimulated human Jurkat T cell cells.
Molecular Mass	Calculated molecular mass 39.1 kDa; estimated by SDS-PAGE under reducing condition ~50 kDa probably due to glycosylation
AA Sequence	KAMHVAQPAVV LASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMM GNELTFLDSDICTGTSSG NQVNLTIQGLRAMDTGLYICKVELMYPPYYLIGINGTQI YVIDPEPCPDSGDSTGHTCPCPAPELLGGPSV FLFPPKPKDTLMISRTPEVTCVV VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWL NGK EYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDIAVEWESNGQPE NNYKTTTPVLDSGSSFLLYSKLTVDKSRWQQGNVFSCSVMH
EALHNHYTQKSLSLSPGK

Endotoxin <0.1 eu per 1 µg of purified recombinant protein determined by the

Purity >95% judged by SDS-PAGE under reducing condition

Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

GENE INFORMATION

Gene Name [CTLA4 cytotoxic T-lymphocyte-associated protein 4 \[Homo sapiens \]](#)

Official Symbol CTLA4

Synonyms 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;

Gene ID [1493](#)

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mRNA Refseq	NM_001037631
Protein Refseq	NP_001032720
UniProt ID	P16410
Chromosome Location	2q33
Pathway	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;
Function	protein binding;

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