

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.
Source	Human cells
Species	Human
Tag	Fc
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 LASSRGIA SFVCEY ASPGKATEVR VTVL RQADSQV TEVC AATYMMGNEL TFL DDSI CTGTSSG NQVNLT IQL RAMDTGLYICK VELM YPPP YYL GIG NGT QIY VID PEP CPD SDG STG HT CPPC PAPE LLGGPSV FL FPPPKPKD TL M ISRT P E VTC VVVD V SHED P E V KFNW Y VDG VEVHNAKTK PREEQYNSTY RVV SVL TVL HQDWL NGKEYKCK VSNK ALPAPI EKTISKA

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	KGQPREPQVYTLPPSREEMTKNQVS LTCLVKGFYPSDIAVEWESNGQPE NNYKTPPVLDSDGSFFLYSKLTVD KSRWQQGNVFSCSVMHEALHNHYTQ KSLSLSPGK
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.

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
mRNA Refseq	NM_001037631
Protein Refseq	NP_001032720

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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;