

Recombinant Human CTLA4, His-tagged, Biotinylated

Cat. No. CTLA4-255H Lot. No. (See product label)

SPECIFICATION

Product Overview Human CTLA4 /CD152 Protein, Biotinylated (Biotinylated CTLA4 /CD152) Ala 37 - Phe 162, was labeled with biotin based on rhCTLA4 Protein, which was produced in human 293 cells (HEK293).

Species Human

Source HEK293

ProteinLength 37-162 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 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.

Molecular Mass Biotinylated CTLA4 /CD152, fused with 6xHis tag at the C-terminus, has a calculated MW of 14.3 kDa. The predicted N-terminus is Ala 37 . DTT-reduced Protein migrates

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as 25 kDa due to glycosylation.

Endotoxin Less than 1.0 EU per µg of the Biotinylated CTLA4 /CD152 by the LAL method.

Purity >95% as determined by reduced SDS-PAGE.

Storage Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).

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

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;

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