Recombinant Human CTLA4, Fc-tagged

Cat. No. CTLA4-28029TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human fusion protein homodimeric glycosylated CTLA4 produced in Sf9 insect cells. Each subunit is fused to a polypeptide linker to the Fc portion of Human IgG1.
Species	Human
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.
Conjugation	Fc
Tissue specificity	Widely expressed with highest levels in lymphoid tissues.
Form	Lyophilised:Reconstitute in sterile 18MOhm/cm water to not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneNo additives

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	The sequence of the amino acids was determined and was found to be: Lys-Ala-Met-His-Val.
Sequence Similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.

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;
Gene ID	1493
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;

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Function	protein binding;

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