

## Recombinant Human CTLA4, His-tagged

**Cat. No.** CTLA4-7259H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CTLA4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	CTLA4 is a member of the immunoglobulin superfamily and 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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>molecular mass</b>	15.9 kDa (149aa)

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<b>aa sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSKAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSICTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYLIG INGTQIYVI DPEPCPDSD
<b>purity</b>	>90% by SDS - PAGE
<b>applications</b>	SDS-PAGE
<b>storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>concentration</b>	1 mg/ml
<b>GENE INFORMATION</b>	
<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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