Recombinant Rat CTLA4 Protein, Fc-tagged

Cat. No. CTLA4-657R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CTLA4 protein with Fc tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	223
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
Molecular Mass	40.2 kDa
AA Sequence	MACLGLQRYKTHLQLPSRTWPFGVLLSLLFIPIFSEAIQVTQPSVVLASSHGVASFPC EYASSHNTDEVRVTVLRQTNDQVTEVCATTFTVKNTLGFLDDPFCSGTFNESRVNL TIQGLRAADTGLYFCKVELMYPPPYFVGMGNGTQIYVIDPEPCPDSDFLLWILAAVSS

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	GLFFYSFLVTAVSLNRTLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

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

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	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
UniProt ID	P16410

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