

32-6328: CTLA4 Human, Sf9

Application : Functional Assay

Alternative Name : Cytotoxic T-Lymphocyte Associated Protein 4, Cytotoxic T-Lymphocyte-Associated Protein 4, Insulin-Dependent Diabetes Mellitus 2, Celiac Disease 3, CTLA-4, CD152, Ligand And Transmembrane Spliced Cytotoxic T Lymphocyte Associated Antigen 4, Cytotoxic T Lymphocyte Associated Antigen 4 Short Spliced Form, Cytotoxic T-Lymphocyte-Associated Serine Esterase-4, Cytotoxic T-Lymphocyte-Associated Antigen 4, CD152 Isoform, CD152 Antigen, CELIAC3, IDDM12, ALPS5, GRD4, GSE, CD, Cytotoxic T-lymphocyte protein 4, CTLA4.

Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

CTLA-4 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.

CTLA4 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 135 amino acids (36-161a.a.) and having a molecular mass of 14.6kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). CTLA4 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : CTLA4 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 20% glycerol.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : ADLKAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYLG IGNGTQIYVI DPEPCPDS DH HHHHH.

Application Note

Determined by IL-2 ELISA via Jurkat human acute T cell leukemia cells. The ED50 range <= 150 ng/ml with Human B7-1/CD80.