
Product Data Sheet

Product Name: CTLA4 Human, Sf9
 Cat. No.: GP20155
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytotoxic T-Lymphocyte Associated Protein 4; Cytotoxic T-Lymphocyte-Associated Protein 4; Insulin-Dependent Diabetes Mellitus 12; 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.		
Amino Acid Sequence	ADLKAMHVAQPAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQVNLTIQGLRAM DTGLYICKVE LMYPPPYLIG INGTQIYVI DPEPCPDS DH HHHHH.		
Formulation	CTLA4 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 20% glycerol.		

Introduction

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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 a6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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