Recombinant human CTLA4 protein

Catalog Number: ATGP1959

PRODUCT INFORMATION

Expression system
E.coli

Domain
36-161aa

UniProt No.
P16410

NCBI Accession No.
NP_005205.2

Alternative Names
Cytotoxic T-lymphocyte protein 4 isoform CTLA4-TM precursor, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, CELIAC3, Celiac disease 3, Insulin-dependent diabetes mellitus 12, IDDM12, CD, GSE

PRODUCT SPECIFICATION

Molecular Weight
15.9 kDa (149aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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

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disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases. Recombinant human CTLA4 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

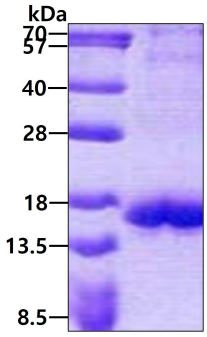
<MGSSHHHHHH SSGLVPRGSH MGS>KAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYYLG IGNGTQIYVI DPEPCPDSD

General References

Rudd CE, Taylor A, et al. (2009). Immunol Rev. 229(1):12-26.
Stamper CC, Zhang Y, et al. (2001). Nature. 410(6828):608-11.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.