

# Recombinant human CTLA4 protein

Catalog Number: ATGP1959

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

<MGSSHHHHH SSGLVPRGSH MGS>KAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT  
EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPYYLG IINGTQIYVI DPEPCPDS

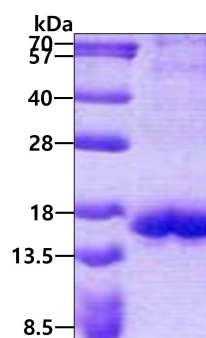
## General References

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

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### SDS-PAGE



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