

# Recombinant mouse Ctla4 protein

Catalog Number: ATGP3321

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

38-161aa

### UniProt No.

P09793

### NCBI Accession No.

NP\_033973

### Alternative Names

Cytotoxic T-lymphocyte protein 4 isoform 1, CTLA4, Cd152, Ctla-4, Ly-56

## PRODUCT SPECIFICATION

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### Molecular Weight

40.6 kDa (363aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### 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, also known as cytotoxic T-lymphocyte protein 4 isoform 1, is a type 1 membrane protein and a member of the immunoglobulin-superfamily. Besides, this protein contains an extra cellular domain, a transmembrane domain and a cytoplasmic tail. It is generally expressed with highest levels in lymphoid tissues. Also, it is similar to T-cell costimulatory protein CD28 since both of the molecules bind to CD80 and CD86 on antigen-presenting

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cells. CTLA4 and CD28 effectively regulate T cell responses as opposing signals transmitted through two related cell-surface receptors. Recombinant mouse CTLA4, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

IQVTQPSVVL ASSHGVASFP CEYSPSHNTD EVRVTVLRQT NDQMTEVCAT TFTEKNTVGF LDYPFCSGTF NESRVNLTIQ  
GLRAVDTGly LCKVELMYPP PYFVGMGNGT QIYVIDPEPC PDSLEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT  
LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA  
PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL  
TVDKSRWQQG NVFSCSVME ALHNHYTQKS LSLSPGKHHH HHH

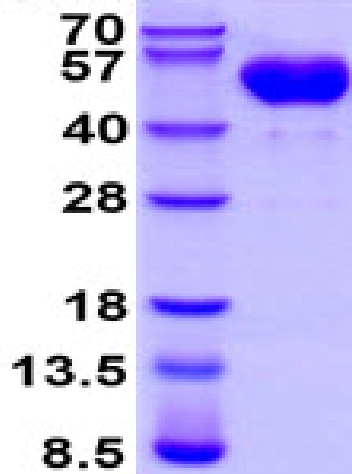
## General References

- Krummey SM., et al. (2014) J. Immunol. 192:2495-2504.
- Jain N., et al. (2013) Nat. Med. 19:1632-1637.
- Yu CR., et al. (2013) J. Immunol. 191:5036-5043.

## DATA

### SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)