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# **Recombinant human CTLA4 protein**

Catalog Number: ATGP3914

#### **PRODUCT INFORMATION**

# **Expression system**

Baculovirus

#### **Domain**

36-161aa

#### UniProt No.

P16410

#### **NCBI Accession No.**

NP 005205

#### **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

#### **Additional Information**

ATGP3364 has been replaced with a catalog number ATGP3914.

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

40.8 kDa (368aa)

# Concentration

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

# **Formulation**

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

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

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

### **Biological Activity**

The activity is determined by the IL-2 ELISA in a using Jurkat human acute T cell leukemia cells. The ED50 range ≤150ng/ml with Human B7 1/CD80.

#### Tag

hlgG-His-Tag

#### **Application**

SDS-PAGE, Bioactivity

### **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.



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#### **BACKGROUND**

#### **Description**

CTLA-4, also known as cytotoxic T-lymphocyte protein 4, is a type I transmembrane T cell inhibitory molecule that is a member of the Ig superfamily. The affinity of CTLA-4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28. Recombinant human CTLA-4, fused to hIgG His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

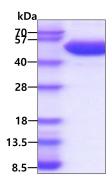
<ADL>KAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYYLG IGNGTQIYVI DPEPCPDSD<L EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTTP PVLDSDGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHHH>

#### **General References**

Harper K., et al. (1991) J. Immunol. 147:1037-1044. Teft WA., et al. (2006) Annu. Rev. Immunol. 24:65-97.

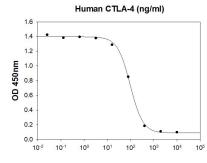
#### **DATA**

#### **SDS-PAGE**



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

# **Biological Activity**



Human CTLA-4 inhibits Human B7 1/CD80 induced IL-2 secretion of the Jurkat human acute T cell leukemia cells. The ED50 range  $\leq$ 150 ng/ml.

