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
hIgG-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

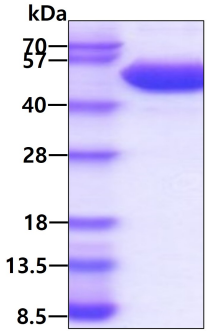
<ADL>KAMHVAQ PAVVLASSRG IASFVCEYAS PGKATEVRVT VLRQADSQVT EVCAATYMMG NELTFLDDSI CTGTSSGNQV NLTIQGLRAM DTGLYICKVE LMYPPPYYLG IGNGTQIYVI DPEPCPDSD<L EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL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

General References

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

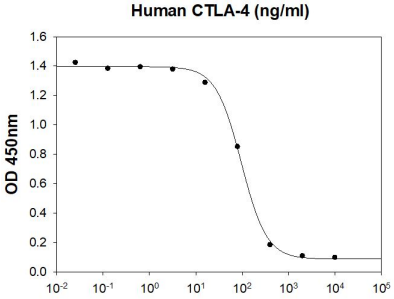
DATA

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 ≤150 ng/ml.