

CTLA-4 active protein

Recombinant CTLA-4

CATALOG # AAA48326	HOST Baculovirus	APPLICATIONS SDS-Page
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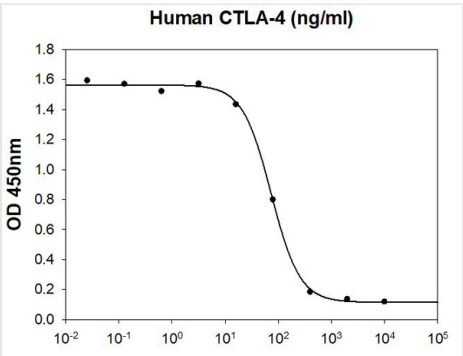
PRODUCT SYNONYMS

CTLA-4; Recombinant CTLA-4; CTLA4; Cytotoxic T-lymphocyte-associated protein 4; Cytotoxic T-lymphocyte-associated antigen 4; ALPS5; CD; CD152; CELIAC3; GRD4; GSE; IDDM12; CTLA-4 active protein

PRODUCT SPECIFICATIONS

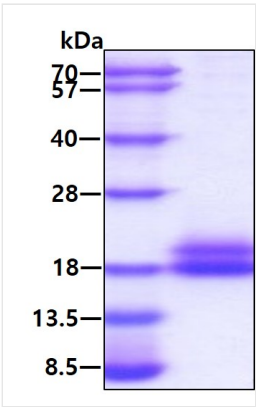
Host	Baculovirus
Purity/Purification	> 90% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	36-161aa
Sequence	KAMHV AQPAVVLASS RGIASFVCEY ASPGKATEVR VTVLRQADSQ VTEVCAATYM MGNELTFLDD SICTGTSSGN QVNLTIQGLR AMDTGLYICK VELMYPPPY Y LGIGNGTQIY VIDPEPCPDS D
Sequence Length	223
Applicable Applications for CTLA-4 active protein	Bioactivity, SDS-PAGE
Tag	His-Tag
Biological Activity	The activity is determined by the IL-2 ELISA in a using Jurkat human acute T cell leukemia cells. The ED50 range 150 ng/ml with Human B7-1/CD80.
Predicted nterm	Ala
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	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.

IMAGES



Bioactivity

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.



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for CTLA-4 active protein	CTLA-4, also known as cytotoxic T-lymphocyte protein 4, is a member of the immunoglobulin superfamily that is expressed by activated T cells and transmits an inhibitory signal to T cells. It also is a protein receptor that functions as an immune checkpoint and downregulates immune responses. This protein is constitutively expressed in regulatory T cells but only upregulated in conventional T cells after activation a phenomenon which is particularly notable in cancers. It may also function via modulation of cell motility and signaling through PI3 kinase. It has been implicated in several autoimmune diseases, such as systemic lupus erythematosus. Recombinant human CTLA-4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CTLA-4 active protein	Immunology
References	Dai F., et al. (2015) Braz J Med Biol Res. 48:629-636. ;Ward FJ., et al. (2013) Eur J Immunol. 43:1274-1285.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27735177
NCBI GeneID	1493
UniProt Accession #	P16410
Molecular Weight	14.6kDa (135aa)
NCBI Official Full Name	Cytotoxic T-lymphocyte protein 4
NCBI Official Synonym Full Names	cytotoxic T-lymphocyte associated protein 4
NCBI Official Symbol	CTLA4
NCBI Official Synonym Symbols	CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3
NCBI Protein Information	cytotoxic T-lymphocyte protein 4
UniProt Protein Name	Cytotoxic T-lymphocyte protein 4
UniProt Gene Name	CTLA4
UniProt Synonym Gene Names	CD152; CTLA-4
UniProt Entry Name	CTLA4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

