

CTLA-4 active protein

Recombinant CTLA-4

CATALOG # AAA48323	HOST Baculovirus	APPLICATIONS SDS-Page
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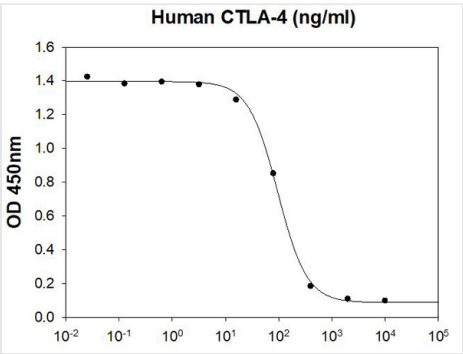
PRODUCT SYNONYMS

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

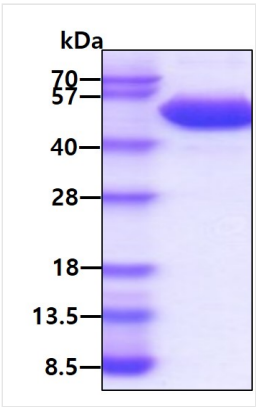
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 95% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	36-161aa
Sequence	KAMHV AQPAVVLASS RGIASFVCEY ASPGKATEVR VTVLRQADSQ VTEVCAATYM MGNELTFLDD SICTGTSSGN QVNLIQGLR AMDTGLYICK VELMYPPPY LGIGNGTQIY VIDPEPCPDS D
Sequence Length	223
Applicable Applications for CTLA-4 active protein	Bioactivity, SDS-PAGE
Tag	hIgG-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



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 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.
Product Categories/Family for CTLA-4 active protein	Immunology
References	Harper K., et al. (1991) J. Immunol. 147:1037-1044.; Teft WA., et al. (2006) Annu. Rev. Immunol. 24:65-97.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27735177
NCBI GeneID	1493
UniProt Accession #	P16410
Molecular Weight	40.8kDa (368aa)
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.