

CTLA-4 Active Protein | CTLA4 active protein

CTLA-4 Protein, Mouse, Recombinant (ECD, hFc Tag)

CATALOG #
AAA258168

HOST
HEK293 Cells

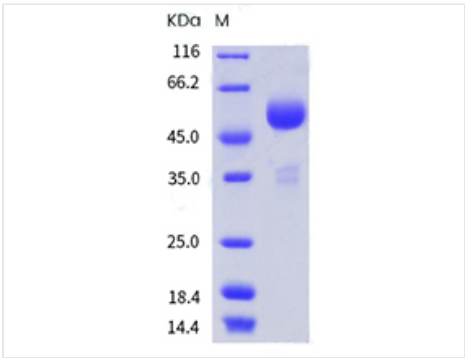
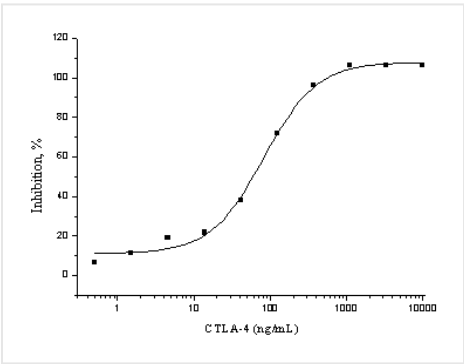
PRODUCT SYNONYMS

CTLA-4; CTLA-4 Protein; Mouse; Recombinant (ECD; hFc Tag); Mouse CTLA4/CD152 Protein (ECD; Fc Tag); Cd152 Protein; Ctlα-4 Protein; Ly-56 Protein; cytotoxic T-lymphocyte-associated protein 4; CTLA4 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Phe16 2
Species	Mouse
Activity	Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.05-0.3ug/mL when stimulated with 1ug/mL Recombinant Human B7-1/CD80.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 36
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the extracellular domain of mouse CTLA4 (NP_033973.2)(Met 1-Phe 162) was fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



Application Data

Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.05-0.3ug/mL when stimulated with 1 ug/mL Recombinant Human B7-1/CD80.

SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CTLA4 active protein	Background: Cytotoxic T-lymphocyte protein 4, also known as CTLA4 and CD152, is a single-pass type I membrane protein and a member of the immunoglobulin superfamily. It is the second member of the CD28 receptor family. The ligands or counterreceptors for these two proteins are the B7 family members, CD80 (B7-1) and CD86 (B7-2). CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may play an important role in their functions. CD152 or cytotoxic T lymphocyte antigen-4 (CTLA-4) is an essential receptor involved in the negative regulation of T cell activation. Because of its profound inhibitory role, CD152 has been considered a sound susceptible candidate in autoimmunity and a persuasive target for cancer immunotherapy. In particular, recent evidence suggests that CD152 is also important in the homeostasis and function of a population of suppressive cells, termed regulatory T cells (Treg).
Product Categories/Family for CTLA4 active protein	ITIM/ITAM Immunoreceptors and Related Molecules Cancer Drug Targets
References	Slavik JM, et al. (1999) CD28/CTLA-4 and CD80/CD86 families: signaling and function. Immunol Res. 19(1): 1-24.Holmberg D, et al. (2005) CTLA-4 (CD152) and its involvement in autoimmune disease. Autoimmunity. 38(3): 225-33.Chin LT, et al. (2008) Immune intervention with monoclonal antibodies targeting CD152 (CTLA-4) for autoimmune and malignant diseases. Chang Gung Med J. 31(1): 1-15.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31981847
NCBI GeneID	12477
NCBI Accession #	NP_033973.2
NCBI GenBank Nucleotide #	NM_009843.4
UniProt Accession #	P09793; Q9QZZ7
Molecular Weight	24,993 Da
NCBI Official Full Name	cytotoxic T-lymphocyte protein 4 isoform 1
NCBI Official Synonym Full Names	cytotoxic T-lymphocyte-associated protein 4
NCBI Official Symbol	Ctla4
NCBI Official Synonym Symbols	Cd152; Ly-56; Ctla-4
NCBI Protein Information	cytotoxic T-lymphocyte protein 4; CD152 antigen; cytotoxic T-lymphocyte-associated antigen 4
UniProt Protein Name	Cytotoxic T-lymphocyte protein 4

UniProt Gene Name	Ctla4
UniProt Synonym Gene Names	Cd152; CTLA-4
UniProt Entry Name	CTLA4_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-ctla4-active-protein/ctla-4/258168>