

CTLA-4 Recombinant Protein | CTLA4 recombinant protein

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

CATALOG #
AAA257477

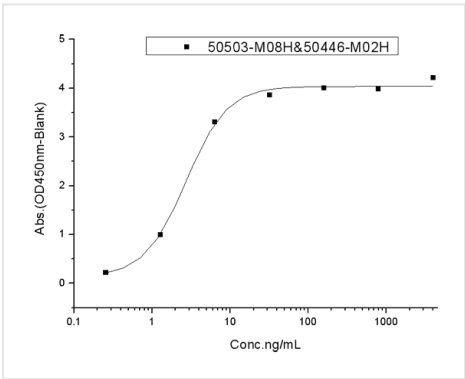
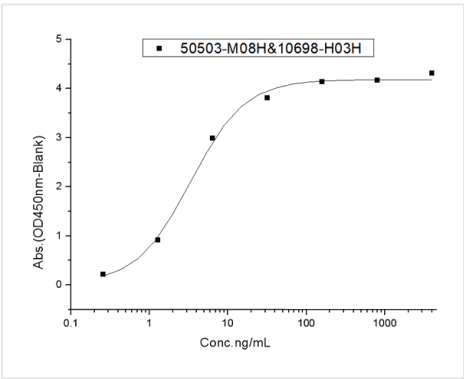
HOST
HEK293 Cells

PRODUCT SYNONYMS

CTLA-4; CTLA-4 Protein; Mouse; Recombinant (ECD; His Tag); Mouse CTLA4/CD152 Protein (His Tag); cytotoxic T-lymphocyte-associated protein 4; Cd152 Protein; CtlA-4 Protein; Ly-56 Protein; CTLA4 recombinant protein

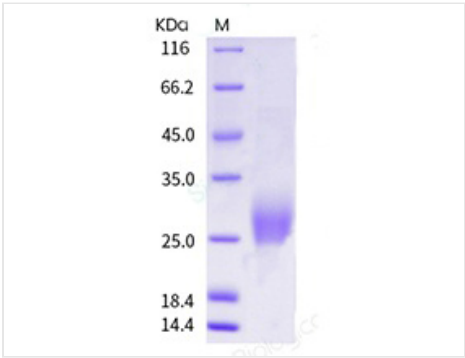
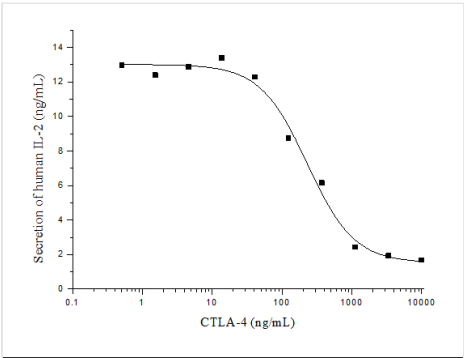
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>98 % 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.
Sequence Positions	138aa
Sequence	Met1-Phe162
Species	Mouse
Tag	C-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu36
Protein Construction	JA DNA sequence encoding the extracellular domain of mouse CTLA4 (NP_033973.2) (Met 1-Phe 162) was expressed, with a polyhistidine tag at the C-terminus
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant mouse CTLA4-His (Cat:50503-M08H) at 10ug/ml (100ul/well) can mouse CD80-Fc (Cat:50446-M02H) with a linear range of 0.78-62.5ng/ml. 3. Immobilized recombinant mouse CTLA4-His (Cat:50503-M08H) at 10ug/ml (100ul/well) can human B7-1-Fc (Cat:10698-H03H) with a linear range of 0.78-125ng/ml. 4. Measured by its ability to inhibit IL-2 secretion by stimulated Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.1-0.5ug/mL when stimulated with 1ug/mL Recombinant Human B7-1/CD80.
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. Shipping: They are shipped out with blue ice pack



Application Data
Measured by its binding ability in a functional ELISA. Immobilized Pig Transferrin hFc (Cat:13656-W02H) at 2 ug/ml (100 ul/well) can bind Human TFRC His, HPLC (Cat:HPLC-11020-H07H), the EC50 of Human TFRC His, HPLC is 100-400 ng/mL.

Application Data
Immobilized recombinant mouse CTLA4-His (Cat:50503-M08H) at 10 ug/ml (100 ul/well) can mouse CD80-Fc (cat:50446-M02H) with a linear range of 0.78-62.5 ng/ml.



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 0.1-0.5ug/mL when stimulated with 1 ug/mL Recombinant Human B7-1/CD80.

Application Data

ADDITIONAL INFORMATION

Related Product Information for CTLA4 recombinant protein	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 recombinant 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.

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Online datasheet: <https://www.aaabiotech.com/ctla4-recombinant-protein-hek293/257477>