

Ctla-4 active protein

Recombinant mouse Ctla-4 protein

CATALOG # AAA48408	HOST Baculovirus	APPLICATIONS SDS-Page
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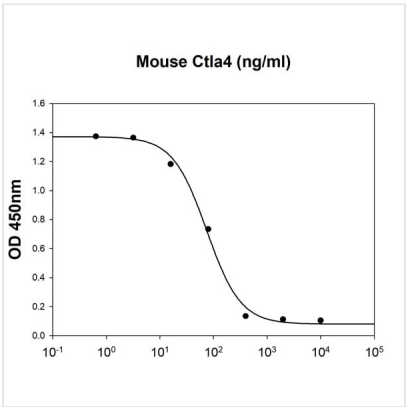
PRODUCT SYNONYMS

Ctla-4; Recombinant mouse Ctla-4 protein; cytotoxic T-lymphocyte protein 4 isoform 1; Ly-5; Ctla; Cytotoxic T-lymphocyte-associated antigen 4; CTLA4; Cd152; Ly-56; Ctla4; Ctla-4 active protein

PRODUCT SPECIFICATIONS

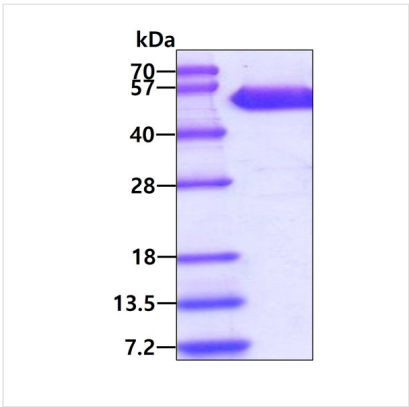
Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	38-161aa
Sequence	IQVTQPSVVL ASSHGVASFP CEYSPSHNTD EVRVTVLRQT NDQMTEVCAT TFTEKNTVGF LDYPFCSGTF NESRVNLTIQ GLRAVD TGLY LCKVELMYPP PYFVGMGNGT QIYVIDPEPC PDSD
Applicable Applications for Ctla-4 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Mouse
Tag	hIgG-His-Tag
Predicted N-term	Ile 38
Bioactivity	The activity is determined by the IL-2 ELISA in a using stimulated Jurkat human acute T cell leukemia cells with Human B7-1/CD80. The ED50 range <=150ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Mouse Ctla4 inhibits IL-2 secretion of the stimulated Jurkat human acute T cell leukemia cells with Human B7-1/CD80. 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 isoform 1, is a type 1 membrane protein and a member of the immunoglobulin-superfamily. Besides, this protein contains an extra cellular domain, a transmembrane domain and a cytoplasmic tail. It is generally expressed with highest levels in lymphoid tissues. Also, it is similar to T-cell costimulatory protein CD28 since both of the molecules bind to CD80 and CD86 on antigen-presenting cells. CTLA4 and CD28 effectively regulate T cell responses as opposing signals transmitted through two related cell-surface receptors. Recombinant mouse 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; Proteins
References	Krummey SM., et al. (2014) J. Immunol. 192:2495-2504. Jain N., et al. (2013) Nat. Med. 19:1632-1637. Yu CR., et al. (2013) J. Immunol. 191:5036-5043.

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

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/baculovirus-active-protein/ctla-4/48408>