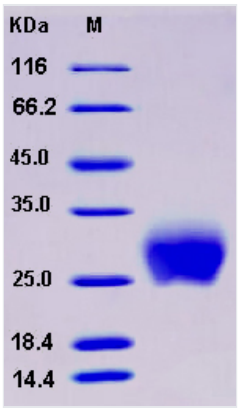
CTLA4 / CD152 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CTLA4 / CD152, Recombinant Protein
Full Product Name	Recombinant Mouse CTLA4 / CD152 Protein (His tag)
Product Gene Name	CTLA4 / CD152 recombinant protein
Product Synonym Names	CH29-120A16.2, Cd152, Ctla-4, Ly-56, Ctla4
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 98 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	24,993 Da
3D Structure	ModBase 3D Structure for P09793
Predicted N Terminal	Glu 36
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for CTLA4 / CD152 recombinant protein	The recombinant mouse CTLA4 consists of 138 amino acids and has a predicted molecular mass of 15.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm CTLA4 is approximately 25-30 kDa due to glycosylation.
Related Product Information for CTLA4 / CD152 recombinant 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). Description: A 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.
Other Notes	Small volumes of CTLA4 / CD152 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTLA4 / CD152 purchase	MBS2546944 is a recombinant protein targeting CTLA4 / CD152. Also known as Recombinant Mouse CTLA4 / CD152 Protein (His tag). Host: Human Cells.



SDS-PAGE of CTLA4 / CD152 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTLA4 / CD152. It may not necessarily be applicable to this product.

NCBI GI #	31981847
NCBI GeneID	12477
NCBI Accession #	NP_033973.2
UniProt Primary Accession #	P09793
UniProt Secondary Accession #	Q9QZZ7
UniProt Related Accession #	P09793
GenBank Nucleotide #	NM_009843.4
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
UniProt Protein Name	Cytotoxic T-lymphocyte protein 4
UniProt Synonym Protein Names	Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD_antigen: CD152
UniProt Gene Name	Ctla4
UniProt Synonym Gene Names	Cd152; CTLA-4
NCBI Protein Information	cytotoxic T-lymphocyte protein 4
NCBI Summary for CTLA4 / CD152	This gene is a member of the immunoglobulin superfamily, and encodes a protein that functions as a negative regulator of T-cell responses. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2013]
UniProt Comments for CTLA4 / CD152	Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28 ().
Research Articles on CTLA4 / CD152	**1.** Data suggest enhanced clinical benefit from combining CTLA-4 antigen blockade with poxvirus-based active immunotherapy.
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