CD86/B7-2 Mouse Active Protein

PRODUCT OVERVIEW

Product Name	CD86/B7-2, Active Protein
Full Product Name	Recombinant Mouse CD86/B7-2 Protein
Product Gene Name	CD86/B7-2 active protein
Product Synonym Names	CD86; B7-2; B70; CD28LG2; LAB72; MGC34413
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22um filtered solution of PBS, pH7.4.
Purity/Purification	>97% by SDS-PAGE.
Preparation and Storage	Store the lyophilized protein at -20 degree C to -80 degree C for long term. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.
Molecular Weight	33,962 Da
OMIM	U04343 mRNA
3D Structure	ModBase 3D Structure for P42082
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Mouse
Endotoxin	<0.1EU/ug of the protein by LAL method.
Tag	C-6xHis
Reconstitution	Reconstitute to a concentration of 0.1-0.5mg/mL in sterile distilled water.
Product Categories/Family for CD86/B7-2 active protein	Immune Checkpoint; Bio-Markers & CD Antigens
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CD86/B7-2 active protein	Recombinant Mouse CD86/B7-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val24-Glu245) of mouse CD86/B7-2 (Accession #NP_062261.3) fused with a 6×His tag at the C-terminus. Background: CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B70), is a member of the cell surface immunoglobulin superfamily. CD86 is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response.
Other Notes	Small volumes of CD86/B7-2 active 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 CD86/B7-2 purchase	MBS9144141 is an active protein targeting CD86/B7-2. Also known as Recombinant Mouse CD86/B7-2 Protein. Host: HEK293 cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD86/B7-2. It may not necessarily be applicable to this product.

NCBI GI #	161484599
NCBI GeneID	12524
NCBI Accession #	NP_062261.3
UniProt Primary Accession #	P42082
UniProt Related Accession #	P42082
GenBank Nucleotide #	NM_019388.3
NCBI Official Full Name	T-lymphocyte activation antigen CD86
NCBI Official Synonym Full Names	CD86 antigen
NCBI Official Symbol	Cd86
NCBI Official Synonym Symbols	B7; B70; MB7; B7-2; B7.2; CLS1; Ly58; ETC-1; Ly-58; MB7-2; Cd28l2; TS/A-2
UniProt Protein Name	T-lymphocyte activation antigen CD86
UniProt Synonym Protein Names	Activation B7-2 antigen; B70; BU63; CTLA-4 counter-receptor B7.2; FUN-1; CD_antigen: CD86
UniProt Gene Name	CD86
UniProt Synonym Gene Names	CD28LG2
NCBI Protein Information	T-lymphocyte activation antigen CD86
UniProt Comments for CD86/B7-2	CD86: Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T- cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Immunoglobulin superfamily; Membrane protein, integral Chromosomal Location of Human Ortholog: 3q13.33 Cellular Component: cell surface; integral to membrane; plasma membrane Molecular Function: phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein binding; receptor activity Biological Process: cell-cell signaling; immune response; phosphoinositide-mediated signaling; positive regulation of cell proliferation; regulation of phosphoinositide 3-kinase cascade; T cell activation; T cell costimulation
Research Articles on CD86/B7-2	**1.** Local administration of CD86 siRNA during the effector phase ameliorates asthma phenotypes.
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