B7-1 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	B7-1, Recombinant Protein
Full Product Name	Recombinant Mouse B7-1
Product Gene Name	B7-1 recombinant protein
Product Synonym Names	T-lymphocyte activation antigen CD80; Activation B7-1 antigen; B7; CD80
Sequence	Val38-Asn2 46
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, pH7.4
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	24,051 Da
3D Structure	ModBase 3D Structure for Q00609
Species	Mouse
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal His Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for B7-1 recombinant protein	cytokines; immune-checkpoint-proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for B7-1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for B7-1 recombinant protein	MBS7621983 is a recombinant protein targeting B7-1. Also known as Recombinant Mouse B7-1. Host: Mammalian Cells.
Other Notes	Small volumes of B7-1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B7-1. It may not necessarily be applicable to this product.

NCBI GI #	112983684
NCBI GeneID	12519
NCBI Accession #	NP_033985.3
UniProt Primary Accession #	Q00609

UniProt Secondary Accession #	Q61332
UniProt Related Accession #	Q00609
GenBank Nucleotide #	NM_009855.2
NCBI Official Full Name	T-lymphocyte activation antigen CD80
NCBI Official Synonym Full Names	CD80 antigen
NCBI Official Symbol	Cd80
NCBI Official Synonym Symbols	B71; Ly53; TSA1; Cd28l; Ly-53; MIC17
UniProt Protein Name	T-lymphocyte activation antigen CD80
UniProt Synonym Protein Names	Activation B7-1 antigen; B7; CD_antigen: CD80
UniProt Gene Name	Cd80
UniProt Synonym Gene Names	B7; B7
NCBI Protein Information	T-lymphocyte activation antigen CD80
UniProt Comments for B7-1	CD80: Involved in the costimulatory signal essential for T- lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28 or CTLA-4 to this receptor. Protein type: Immunoglobulin superfamily; Membrane protein, integral Chromosomal Location of Human Ortholog: 16 B4|16 26.86 cM Cellular Component: cell surface; external side of plasma membrane Molecular Function: protein binding Biological Process: positive regulation of alpha-beta T cell proliferation; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of T cell proliferation; T cell costimulation
Research Articles on B7-1	**1.** Meningococcal capsular polysaccharide-loaded vaccine nanoparticles induce expression of CD80.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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