

B7-1 Active Protein | CD80 active protein

B7-1 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258163

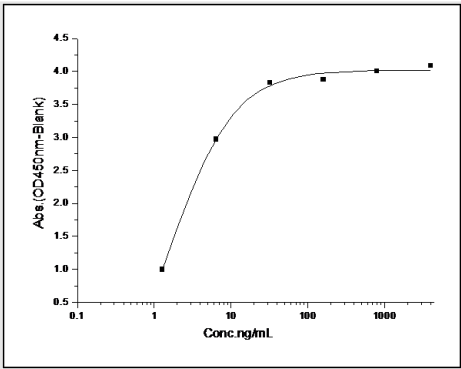
HOST
HEK293 Cells

PRODUCT SYNONYMS

B7-1; B7-1 Protein; Mouse; Recombinant (hFc Tag); Mouse CD80/B7-1 Protein (Fc Tag); B71 Protein; Cd28l Protein; Ly-53 Protein; Ly53 Protein; MIC17 Protein; TSA1 Protein; CD80 molecule; CD80 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% 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. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys24 5
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Val 38
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse CD80 (Q00609-1) extracellular domain (Met 1-Lys 245) was fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human CTLA4 at 10ug/mL (100uL/well) can bind mouse CD80-Fc. The EC50 of mouse CD80-Fc is 28ng/mL.
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. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human CTLA4 at 10 ug/mL (100 ul/well) can bind mouse CD80-Fc, The EC50 of mouse CD80-Fc is 28 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for CD80 active protein	Background: The B-lymphocyte activation antigen B7-1 (referred to as B7), also known as CD80, is a member of cell surface immunoglobulin superfamily and is expressed on the surface of antigen-presenting cells including activated B cells, macrophages and dendritic cells. As costimulatory ligands, B7-1 which exists predominantly as dimer and the related protein B7-2, interact with the costimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus constitute one of the dominant pathways that regulate T cell activation and tolerance, cytokine production, and the generation of CTL. The B7/CD28/CTLA4 pathway has the ability to both positively and negatively regulate immune responses. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.
Product Categories/Family for CD80 active protein	Cancer Drug Targets
References	Greenfield EA, et al. (1998) CD28/B7 costimulation: a review. Crit Rev Immunol. 18(5): 389-418.Zang X, et al. (2007) The B7 family and cancer therapy: costimulation and coinhibition. Clin Cancer Res. 13(18 Pt 1): 5271-9.Mir MA, et al. (2008) Signaling through CD80: an approach for treating lymphomas. Expert Opin Ther Targets. 12(8): 969-79.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112983684
NCBI GeneID	12519
NCBI Accession #	NP_033985.3
NCBI GenBank Nucleotide #	NM_009855.2
UniProt Accession #	Q00609; Q61332
Molecular Weight	24,051 Da
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
NCBI Protein Information	T-lymphocyte activation antigen CD80
UniProt Protein Name	T-lymphocyte activation antigen CD80
UniProt Gene Name	Cd80

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/hek293-cd80-active-protein/b7-1/258163>