

B7-1 Active Protein | CD80 active protein

B7-1 Protein, Human, Recombinant (ECD, His Tag)

CATALOG #
AAA257916

HOST
HEK293 Cells

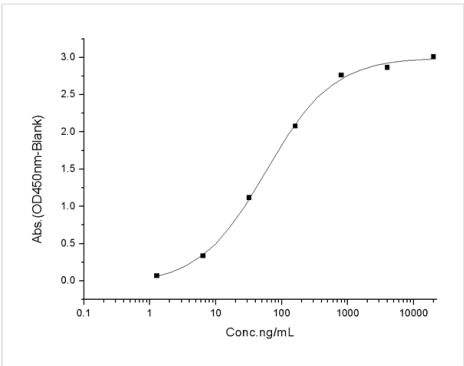
PRODUCT SYNONYMS

B7-1; B7-1 Protein; Human; Recombinant (ECD; His Tag); Human CD80/B7-1 Protein (His Tag); B7 Protein; B7.1 Protein; BB1 Protein; CD28LG Protein; CD28LG1 Protein; LAB7 Protein; CD80 molecule; CD80 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% 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-Asn24 2
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Val 35
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain (Met 1-Asn 242) of human B7-1 (NP_005182.1) precursor was fused with a polyhistidine tag 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	Measured by its binding ability in a functional ELISA. Immobilized B7-1 Protein, Human, Recombinant (His Tag) at 2ug/ml (100uL/well) can bind CTLA-4 Protein, Human, Recombinant (His & hFc Tag). The EC50 of of CTLA-4 (His & hFc Tag) is 35-80ng/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.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized B7-1 Protein, Human, Recombinant (His Tag) at 2 ug/ml (100 ul/well) can bind CTLA-4 Protein, Human, Recombinant (His & hFc Tag). The EC50 of CTLA-4 (His & hFc Tag) is 35-80 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 #	4885123
NCBI GeneID	941
NCBI Accession #	NP_005182.1
NCBI GenBank Nucleotide #	NM_005191.3
UniProt Accession #	P33681; Q5DTA9; Q5DTB0
NCBI Official Full Name	T-lymphocyte activation antigen CD80
NCBI Official Synonym Full Names	CD80 molecule
NCBI Official Symbol	CD80
NCBI Official Synonym Symbols	B7; BB1; B7-1; B7.1; LAB7; CD28LG; CD28LG1
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/b7-1/257916>