

Active Recombinant Mouse Cd80 Protein, His Tagged

Cat. No. Cd80-37M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse B7-1, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 38-Lys 245 (Accession # Q00609-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Val 38
Species	Mouse
Source	HEK293
ProteinLength	38-245 aa
Description	B7-1 and B7-2, together with their receptors CD28 and CTLA4, constitute one of the dominant co-stimulatory pathways that regulate T and Bcell responses. Although both CTLA4 and CD28 can bind to the same ligands, CTLA4 binds to B71 and B72 with a 20 100 fold higher affinity than CD28 and is involved in the downregulation of the immune response. B-lymphocyte activation antigen B7-1 (referred to as B7) also known as cluster of Differentiation 80 (CD80), is a member of cell surface immunoglobulin superfamily and is expressed on activated B cells, activated T cells, macrophages and dendritic cells. It is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD80 works in tandem with CD86 to prime T cells. CD80 plays a role in induction of innate immune responses by activating NF-κB-signaling pathway in macrophages. CD80 is thus regarded as promising therapeutic targets for autoimmune diseases and various carcinomas.

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Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Mouse B7-1, His Tag at 2 µg/mL (100 µL/well) can bind Mouse CTLA-4, Fc Tag with a linear range of 0.1-2 ng/mL.
Molecular Mass	The protein has a calculated MW of 25.6 kDa. The protein migrates as 40-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd80 CD80 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd80
Synonyms	CD80; CD80 antigen; T-lymphocyte activation antigen CD80; B7 protein; activation B7-1 antigen; B71; Ly53; TSA1; Cd28l; Ly-53; MIC17;
Gene ID	12519

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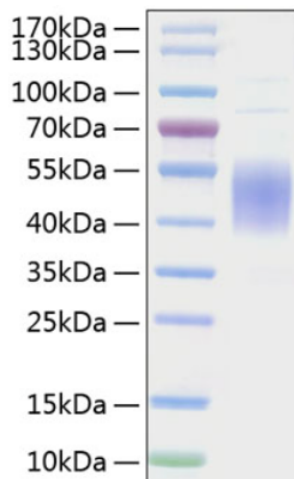
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mRNA Refseq [NM_009855](#)

Protein Refseq [NP_033985](#)

UniProt ID [Q00609](#)

SDS-PAGE



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