

## Active Recombinant Human CD80 Protein, Fc & Avi-tagged, Biotinylated

**Cat. No.** CD80-583H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Biotinylated Recombinant Human CD80 Protein (Val 35 - Asn 242) (NP_005182.1), fused with a human IgG1 Fc tag at the C-terminus, followed by a Avi tag, was expressed in HEK293.                                                 |
| <b>Species</b>              | Human                                                                                                                                                                                                                           |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                          |
| <b>ProteinLength</b>        | Val 35 - Asn 242                                                                                                                                                                                                                |
| <b>Predicted N Terminal</b> | Val 35                                                                                                                                                                                                                          |
| <b>Form</b>                 | Lyophilized from sterile 50 mM tris, 100 mM glycine, pH7.5, 10% trehalose.                                                                                                                                                      |
| <b>Bio-activity</b>         | Measured by its binding ability in a functional ELISA. Immobilized Human CTLA-4, Fc Tag at 5µg/mL (100 µL/well) can bind Biotinylated Human B7-1, Fc Tag with a linear range of 0.6-9.8 ng/mL.                                  |
| <b>Molecular Mass</b>       | Recombinant Human CD80 Protein has a calculated MW of 52.3 kDa. As a result of glycosylation, The protein migrates as 65-95 kDa under reducing (R) condition and 130-160 kDa under non-reducing (NR) condition on SDS-PAGE gel. |
| <b>Endotoxin</b>            | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                      |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                                                                                                                                            |
| <b>Conjugation</b>      | Biotin                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>        | CD80 CD80 molecule [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | CD80                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | CD80; CD80 molecule; CD28LG, CD28LG1, CD80 antigen (CD28 antigen ligand 1, B7 1 antigen) , CD80 molecule; T-lymphocyte activation antigen CD80; B lymphocyte activation antigen B7; B7 1; B7.1; activation B7-1 antigen; costimulatory factor CD80; CTLA-4 counter-receptor B7.1; B-lymphocyte activation antigen B7; costimulatory molecule variant IgV-CD80; CD80 antigen (CD28 antigen ligand 1, B7-1 antigen); B7; BB1; B7-1; LAB7; CD28LG; CD28LG1; |
| <b>Gene ID</b>          | 941                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_005191                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>   | NP_005182                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 112203                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P33681                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 3q13.3-q21                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent PI3K/Akt signaling, organism-specific biosystem; |
| <b>Function</b>            | coreceptor activity; protein binding; receptor activity;                                                                                                                                                                                                                                                                                                                     |

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