

## Active Recombinant Human CD80 protein, His-tagged

**Cat. No.** CD80-560H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human CD80(Val35-Asn242) fused with His tag at C-terminal was expressed in NS0.                                                                                                                               |
| <b>Species</b>              | Human                                                                                                                                                                                                                     |
| <b>Source</b>               | Mammalian Cells                                                                                                                                                                                                           |
| <b>ProteinLength</b>        | Val35-Asn242                                                                                                                                                                                                              |
| <b>Predicted N Terminal</b> | Val35                                                                                                                                                                                                                     |
| <b>Form</b>                 | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                       |
| <b>Bio-activity</b>         | Measured by its ability to induce IL-2 secretion by Jurkat human acute T cell leukemia cells. Freeman, G.J. et al. (1993) Science 262:909. The ED50 for this effect is typically 0.025-0.15 µg/mL in the presence of PHA. |
| <b>Molecular Mass</b>       | Predicted Molecular Mass: 51.3 (monomer) kDa;SDS-PAGE: 70-90 kDa, reducing conditions                                                                                                                                     |
| <b>Endotoxin</b>            | <0.10 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                       |
| <b>Purity</b>               | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                               |
| <b>Storage</b>              | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.12 months from                                                                                                                                         |

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date of receipt, -20 to -70 centigrade as supplied.1 month, 2 to 8 centigrade under sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Reconstitution** Reconstitute at 100 µg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## GENE INFORMATION

**Gene Name** CD80 CD80 molecule [ Homo sapiens ]

**Official Symbol** CD80

**Synonyms** 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;

**Gene ID** 941

**mRNA Refseq** NM\_005191

**Protein Refseq** NP\_005182

**MIM** 112203

**UniProt ID** P33681

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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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