

## Active Recombinant Human CD80, MlgG2a Fc-tagged

**Cat. No.** CD80-616H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of human CD80 [B7-1] (NP_005182.1) (Val35-Asn242) is fused to the N-terminus of the Fc region of mouseIgG2a.                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 35-242 a.a.                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy. |
| <b>Form</b>             | Lyophilized from 0.2µm-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.                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 50 KDa (monomer)                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | Val35-Asn242                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>        | <0.06 eu/µg="" as="" determined="" by="" la="" test.="">                                                                                                                                                                                                                                      |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >98%, by SDS-PAGE under reducing conditions.                                                                                        |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |
| <b>Reconstitution</b> | Reconstitute at 100µg/ml in sterile PBS.                                                                                            |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>             | 112203                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | 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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