

# Active Recombinant Human CD86 Protein, Fc & Avi-tagged, Biotinylated

**Cat. No.** CD86-585H    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>     | Biotinylated Recombinant Human CD86 Protein (Leu 26 - Pro 247) (AAH40261), 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>        | Leu 26 - Pro 247                                                                                                                                                                                                                 |
| <b>Predicted N Terminal</b> | Leu 26                                                                                                                                                                                                                           |
| <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 B7-2, Fc Tag with a linear range of 19-156 ng/mL.                                    |
| <b>Molecular Mass</b>       | Recombinant Human CD86 Protein has a calculated MW of 53.8 kDa. As a result of glycosylation, The protein migrates as 66-100 kDa under reducing (R) condition and 120-140 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>        | CD86 CD86 molecule [ Homo sapiens ]                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | CD86                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | CD86; CD86 molecule; CD28LG2, CD86 antigen (CD28 antigen ligand 2, B7 2 antigen); T-lymphocyte activation antigen CD86; B lymphocyte antigen B7 2; B7 2; B7.2; BU63; FUN-1; CTLA-4 counter-receptor B7.2; B-lymphocyte activation antigen B7-2; CD86 antigen (CD28 antigen ligand 2, B7-2 antigen); B70; B7-2; LAB72; CD28LG2; MGC34413; |
| <b>Gene ID</b>          | 942                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_001206924                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>   | NP_001193853                                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>              | 601020                                                                                                                                                                                                                                                                                                                                   |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P42081                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 3q21                                                                                                                                                                                                                                                                                                                                                                         |
| <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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