

## Recombinant Human CD86 Protein (Met1-His239), His-Fc-tagged, Biotinylated

**Cat. No.** CD86-422H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human CD86 Protein (NP\_008820.2) (Met1-His239) was produced by HEK293 Cells expression system. This protein was expressed with the C-terminal His-tagged Fc region of human IgG1 at the C-terminus. The purified protein was biotinylated in vitro.

#### Species

Human

#### Source

HEK293

#### ProteinLength

Met1-His239

#### Description

CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B7), is a member of the cell surface immunoglobulin superfamily. B7-2 exists predominantly as a monomer on cell surfaces and interacts with two co-stimulatory receptors CD28 and cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) expressed on T cells, and thus induces the signal pathways which regulate T cell activation and tolerance, cytokine production, and the generation of CTL. It is indicated that contacts between B and T helper cells mediated by CD86 encourage signals for the proliferation and IgG secretion of normal B cells and B cell lymphomas. Recent study has revealed that CD86 also promotes the generation of a mature APC repertoire and promotes APC function and survival. CD86 has an important role in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, and thus is regarded as a promising candidate for immune therapy.

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|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted N Terminal</b> | Leu 20                                                                                                                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                               |
| <b>Molecular Mass</b>       | The recombinant human CD86 consists of 467 amino acids and predicts a molecular mass of 53.1 kDa.                                                                                                                                                            |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                     |
| <b>Purity</b>               | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                            |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                           |
| <b>Storage</b>              | Store it under sterile conditions at -20 centigrade to -80 centigrade. 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 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                |
| <b>Shipping</b>             | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |
| <b>Conjugation</b>          | Biotin                                                                                                                                                                                                                                                       |

## GENE INFORMATION

**Gene Name** CD86 CD86 molecule [ Homo sapiens ]

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|                 |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| Official Symbol | CD86                                                                               |
| Synonyms        | CD86; CD86 molecule; B7 2; B7.2; BU63; FUN-1; B70; B7-2; LAB72; CD28LG2; MGC34413; |
| Gene ID         | 942                                                                                |
| mRNA Refseq     | NM_001206924                                                                       |
| Protein Refseq  | NP_001193853                                                                       |
| MIM             | 601020                                                                             |
| UniProt ID      | P42081                                                                             |

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