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## **Recombinant Human B7-2/CD86 Protein**

Catalog No.: RP00090 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 942 P42081

## **Tags**

C-His

## **Synonyms**

B7-2;B7.2;B70;CD28LG2;LAB72;CD86; B7-2; B7.2; B70; CD28LG2; LAB72; CD86 molecule

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

FAGL

Calculated MW Observed MW

26.22 kDa 57-66 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## **Background**

CD86, also known as B-lymphocyte activation antigen B7-2 (referred to as B70), is a member of the cell surface immunoglobulin superfamily. CD86 is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response.

### **Basic Information**

## **Description**

Recombinant Human B7-2/CD86 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Leu26-Pro247) of human CD86/B7-2 (Accession #NP\_008820.2) fused with a 6×His tag at the C-terminus.

### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human CD86 at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human CTLA-4 with a linear range of 10-40 ng/mL.

## Shipping

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

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

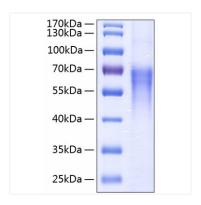
Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

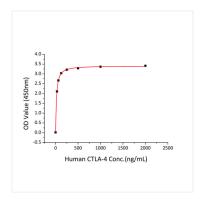
For your safety and health, please wear a lab coat and disposable gloves for handling.

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## **Validation Data**



Recombinant Human B7-2/CD86 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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