

# 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% by SDS- PAGE.

Calculated MW	Observed MW
26.22 kDa	57-66 kDa

### Endotoxin

< 0.1 EU/μg 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  
stabilizer (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

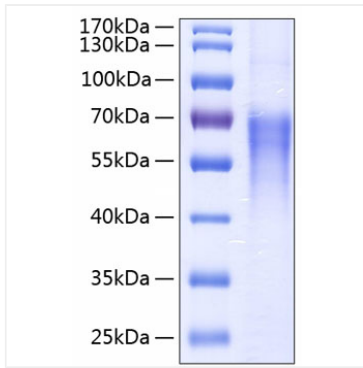
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human CD86 at 2 μg/mL (100 μL/well) can bind Recombinant Human CTLA-4 with a linear range of 10-40 ng/mL.

### Storage

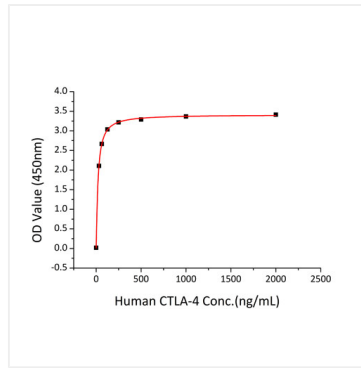
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human CD86/B7-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 57-66 kDa.



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