

RP00090

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Recombinant Human B7-2/CD86 Protein

Catalog No.: RP00090

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	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.

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.

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

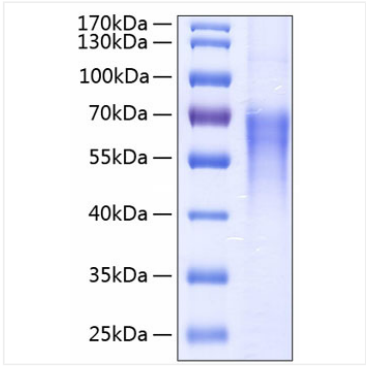
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

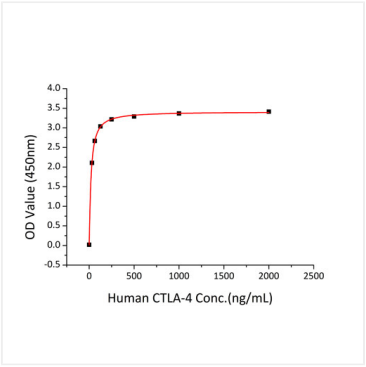


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Validation Data



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



Immobilized Recombinant Human CD86 at 2 μ g/mL (100 μ L/well) can bind Recombinant Human CTLA-4 with a linear range of 10-40 ng/mL.