Recombinant Human B7-2/CD86 Protein

Catalog No.: RP00090

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Sequence Information

Species
Human

Gene ID
942

Swiss Prot
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
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.22 kDa

Observed MW
55-70 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 stablizer (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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

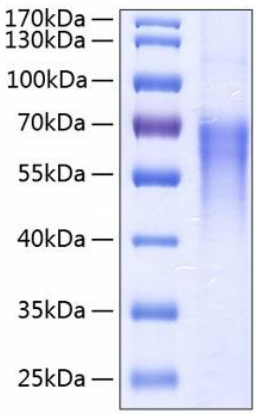
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

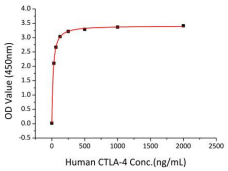
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Validation Data



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



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