Recombinant Human B7-2/CD86 Protein

Catalog No.: RP00559

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Sequence Information

Species
Human

Gene ID
942

Swiss Prot
P42081-1

Tags
C-hFc

Synonyms
41BB Ligand; 4-1BB Ligand; 4-1BBL; CD137L; TNFSF9

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
52 kDa

Observed MW
75-90 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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

B7-1 and B7-2 are homologous costimulatory ligands expressed on the surface of antigen presenting cells (APCs). Binding of these molecules to the T cell costimulatory receptors, CD28 and CTLA-4, is essential for the activation and regulation of T cell immunity. B7-1 and B7-2 do not form hetero-oligomers, underscoring the biological relevance of dimeric and monomeric state of B7-1 and B7-2, respectively.

Basic Information

Description
Recombinant Human B7-2/CD86 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu26-Pro247) of Human B7-2/CD86 (Accession #P42081-1) fused with a C-hFc tag at the C-terminus.

Activity

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℃

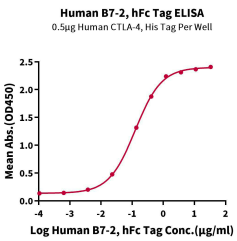
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

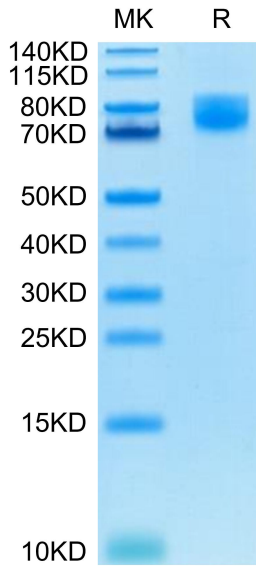
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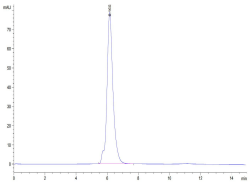
Validation Data



Immobilized Human CTLA-4, His Tag at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Human B7-2, hFc Tag with the EC_{50} of 125.7ng/mL determined by ELISA.



Recombinant Human B7-2/CD86 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human B7-2 is greater than 95% as determined by SEC-HPLC.