

Recombinant Human B7-2/CD86 Protein

Catalog No.: RP00559 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	942	P42081-1

Tags

C-hFc

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
52 kDa	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 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

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

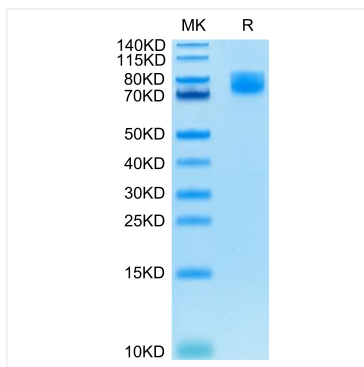
Recombinant Human B7-2/CD86 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu26-Pro247) of Human B7-2/CD86 (Accession #P42081-1) fused with a C-hFc tag at the C-terminus.

Bio-Activity

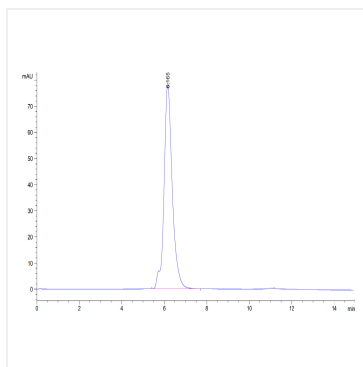
Storage

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.

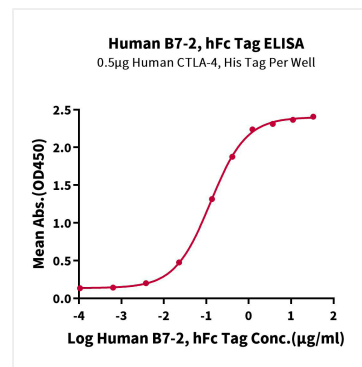
Validation Data



Human B7-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



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 EC₅₀ of 125.7ng/mL determined by ELISA.