Recombinant Human B7-1/CD80 Protein

Catalog No.: RP00564

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Sequence Information

Species
Human

Gene ID
941

Swiss Prot
P33681-1

Tags
C-hFc

Synonyms
CD80 molecule; B7; B71; B7-1; BB1; CD28LG1; CD80; B7.1; CD28LG1; LAB7

Product Information

Source
HEK293 cells

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

Calculated MW
50.5 kDa

Observed MW
70-80 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

Cluster of differentiation 80 (also CD80 and B7-1) is a protein found on dendritic cells, activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 and CTLA-4.

Basic Information

Description
Recombinant Human B7-1/CD80 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val35-Asn242) of Human B7-1/CD80 (Accession #P33681-1) 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℃

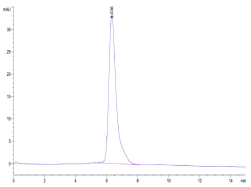
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

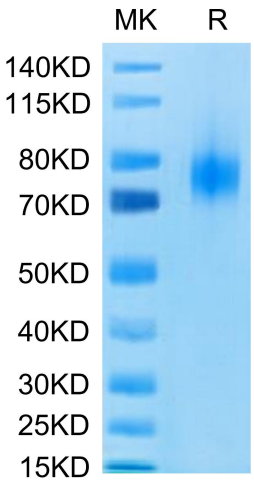
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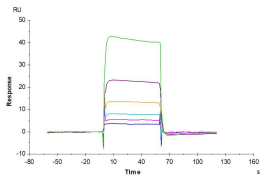
Validation Data



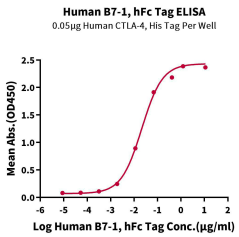
The purity of Human B7-1 is greater than 95% as determined by SEC-HPLC.



Recombinant Human B7-1/CD80 Protein was determined by Tris-Bis PAGE under reducing conditions.



Human B7-1, hFc Tag captured on CM5 Chip via Protein A can bind Human /Cynomolgus/Rhesus macaque CD28, His-Avi Tag with an affinity constant of 43.61 μM as determined in SPR assay (Biacore T200).



Immobilized Human CTLA-4, His Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Human B7-1, hFc Tag with the EC_{50} of 21.4ng/mL determined by ELISA (QC Test).