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# **Recombinant Human B7-1/CD80 Protein**

Catalog No.: RP00562 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 941 P33681-1

Tags

C-His&Avi

**Synonyms** 

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

# **Product Information**

Source

**Purification** 

HEK293 cells

> 95% by SDS-PAGE[]> 95% by

**HPLC** 

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method

#### **Formulation**

Lyophilized from 0.22  $\mu$ m 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.

# **Contact**

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# **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-His&Avi tag at the C-terminus.

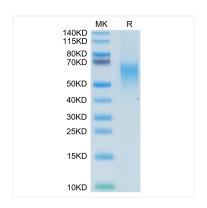
#### **Bio-Activity**

#### Storage

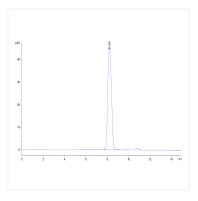
Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

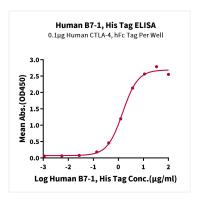
# **Validation Data**



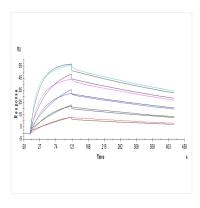
Human B7-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human CTLA-4, hFc Tag at 1  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Human B7-1, His Tag with the EC<sub>50</sub> of 1.48  $\mu$ g/mL determined by ELISA (QC Test).



Human B7-1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CTLA4, hFc Tag with an affinity constant of 1.1nM as determined in SPR assay (Biacore T200).