

# Biotinylated Recombinant Human B7-1/CD80 Protein

Catalog No.: RP00562B **Recombinant**

## Sequence Information

**Species** Human    **Gene ID** 941    **Swiss Prot** P33681-1

### Tags

C-His&Avi

### Synonyms

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

## 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

Biotinylated 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

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### 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.

### Operational Notes

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

## Product Information

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

<b>Calculated MW</b>	<b>Observed MW</b>
26.8 kDa	50-70 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

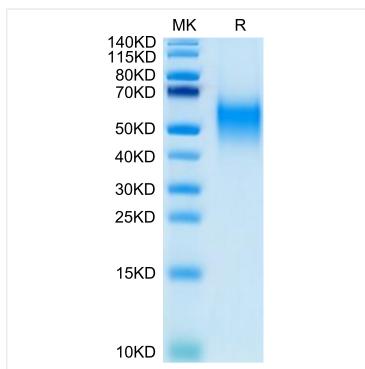
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

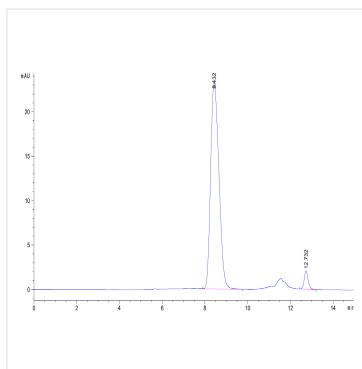
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   <a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a>



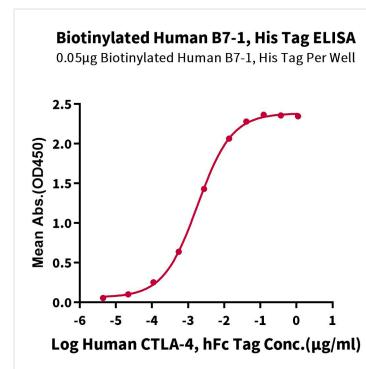
## Validation Data



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



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



Immobilized Biotinylated Human B7-1, His Tag at 0.5  $\mu$ g/mL (100  $\mu$ L/Well) on streptavidin (5  $\mu$ g/mL) precoated plate. Dose response curve for Human CTLA-4, hFc Tag with the EC<sub>50</sub> of 1.8ng/mL determined by ELISA.