

# Recombinant Human B7-1/CD80 Protein

Catalog No.: RP00065 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	941	P33681

### Tags

C-His

### Synonyms

B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LAB7;CD80

## Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Calculated MW	Observed MW
24.71 kDa	40-50 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

The protein is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy.

## Basic Information

### Description

Recombinant Human B7-1/CD80 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Val35-Asn242) of human B7-1/CD80 (Accession #NP\_005182.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant human CD80 at 2 μg/mL (100 μL/well) can bind Recombinant human CTLA-4 with a linear range of 10-50 ng/mL.

### Storage

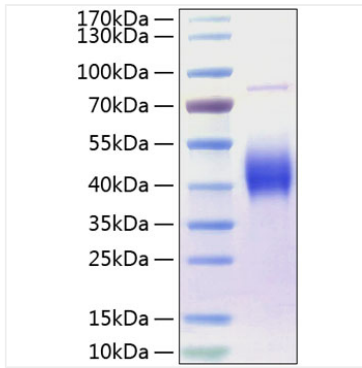
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

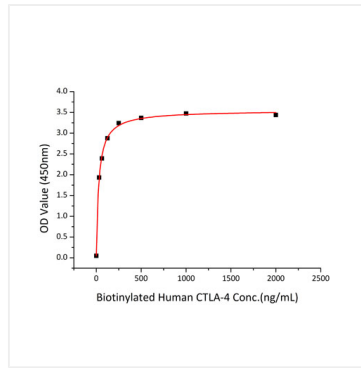
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human B7-1/CD80 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.



Immobilized Recombinant human CD80 at 2  $\mu\text{g/mL}$  (100  $\mu\text{L}$ /well) can bind Recombinant human CTLA-4 with a linear range of 10-50 ng/mL.