

# Recombinant Mouse B7-1/CD80 Protein

Catalog No.: RP01233 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12519	Q00609

### Tags

C-hFc&His

### Synonyms

B7;B7-1;B7.1;BB1;CD28LG;CD28LG1;LA  
B7;CD80;B7;B7-1;B7.1;BB1;CD28LG;CD  
28LG1;LAB7;CD80

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS- PAGE.

### 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.

## 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 Mouse B7-1/CD80 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val38-Lys245) of mouse B7-1/CD80 (Accession #NP\_033985.3) fused with a Fc, 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse CD80 at 500 ng/mL (100 μL/well) can bind Recombinant Human CTLA-4 with a linear range of 11-44 ng/mL.

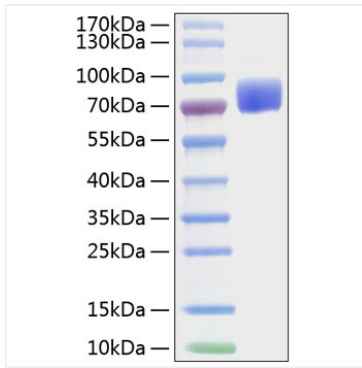
### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.  
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.

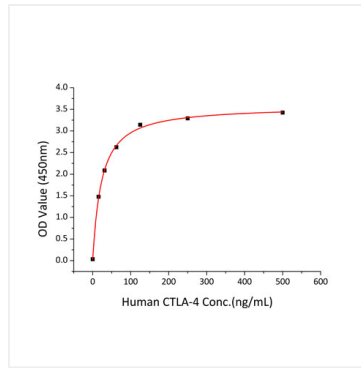
## Contact

## Validation Data

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Active Recombinant Mouse B7-1/CD80 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 65-90 kDa.



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