

# Recombinant Cynomolgus B7-1/CD80 Protein

Catalog No.: RP02633 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102140078	G7NXN7

### Tags

C-His

### Synonyms

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

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

### Endotoxin

Less than 1EU per µg by the LAL method.

### Formulation

#### Reconstitution

Centrifuge the tube 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 freeze-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 Cynomolgus B7-1/CD80 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Val35-Asn242.

### Bio-Activity

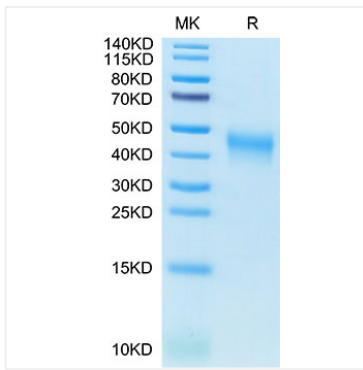
#### Storage

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

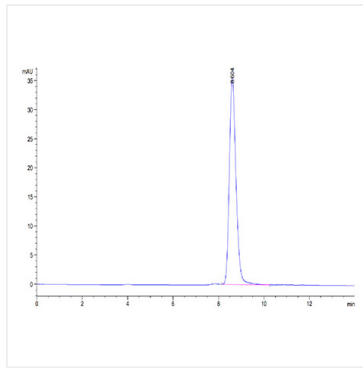
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

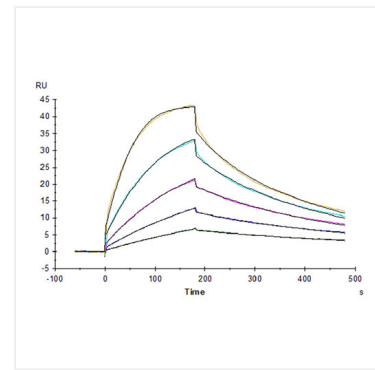
## Validation Data



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



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



Cynomolgus B7-1, His Tag immobilized on CM5 Chip can bind Cynomolgus CTLA-4, His Tag with an affinity constant of 9.90 nM as determined in SPR assay (Biacore T200).