

# 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.

### Calculated MW Observed MW

25 kDa 40-50 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by 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 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 Cynomolgus B7-1/CD80 Protein is expressed from Expi293 with His tag at the C-terminal. [It contains Val35-Asn242.

#### **Bio-Activity**

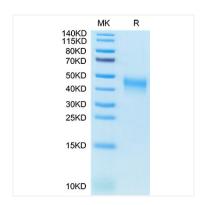
#### **Storage**

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

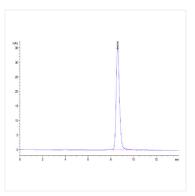
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

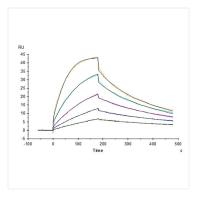
# **Validation Data**



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



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).