

Recombinant Cynomolgus B7-1/CD80 Protein

Catalog No.: RP02633

Sequence Information

Species	Gene ID
Cynomolgus	102140078
Swiss Prot	Tags
G7NXN7	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 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

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

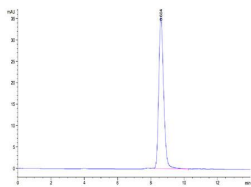
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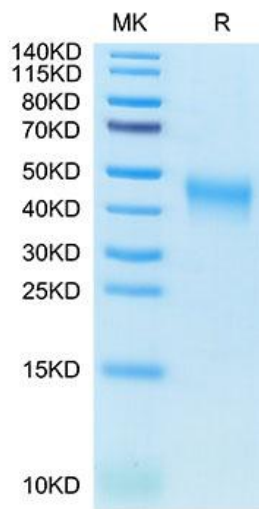
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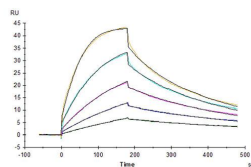
Validation Data



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



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



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).