

# Cynomolgus B7-1/CD80 Protein

Cat. No. B71-CM180



## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Cynomolgus B7-1/CD80 Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Val35-Asn242.   |
| <b>Accession</b>        | G7NXN7   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 25 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

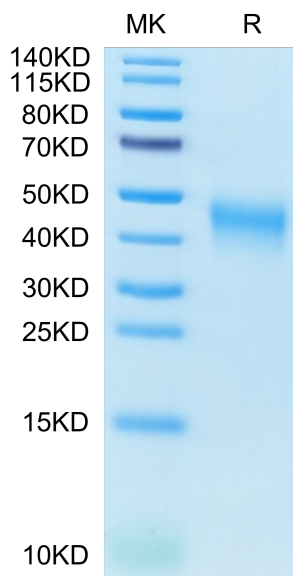
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.  |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

## Assay Data

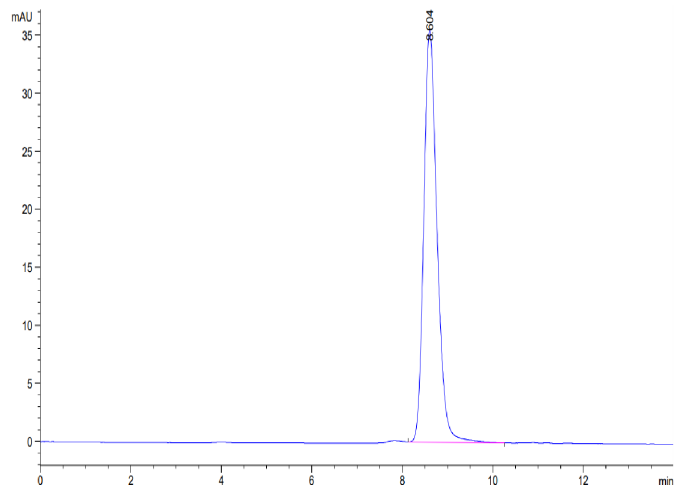
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

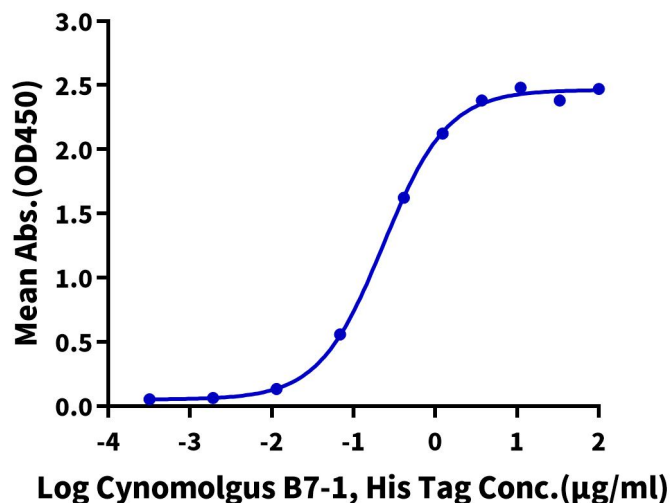


The purity of Cynomolgus B7-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

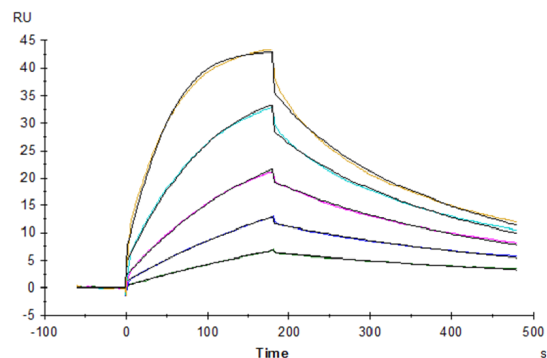
**Cynomolgus B7-1, His Tag ELISA**

0.1µg Human CTLA-4, hFc Tag Per Well



Immobilized Human CTLA-4, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Cynomolgus B7-1, His Tag with the EC50 of 0.23µg/ml determined by ELISA (QC Test).

SPR Data



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).