# Cynomolgus B7-1/CD80 Protein

**Cat. No.** B71-CM180

## Description

| | |
|---|---|
| **Source** | Recombinant Cynomolgus B7-1/CD80 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Val35-Asn242. |
| **Accession** | G7NXN7 |
| **Molecular Weight** | 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. |
| **Endotoxin** | Less than 1 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

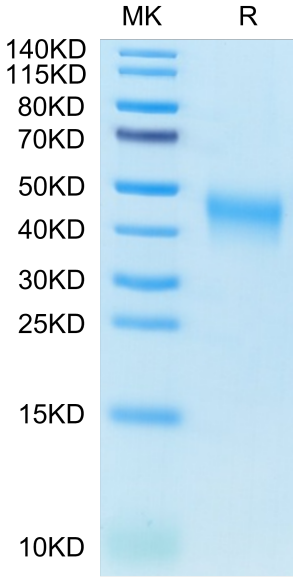
| | |
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -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**



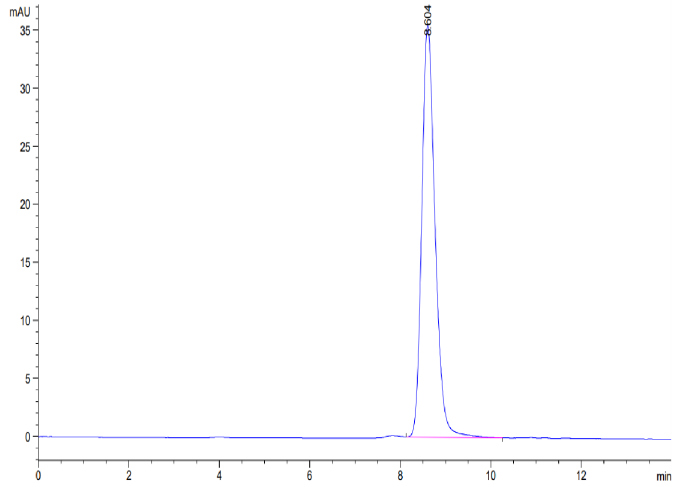

Cynomolgus B7-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

Cynomolgus B7-1/CD80 Protein

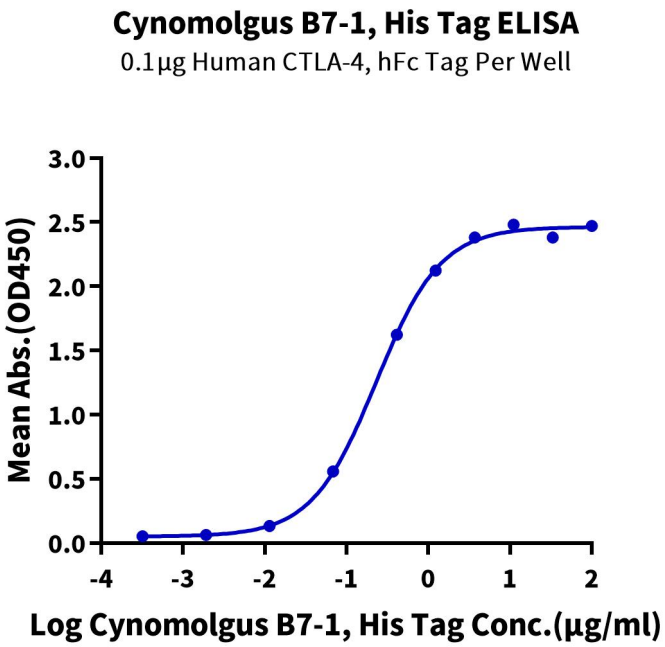
Cat. No. B71-CM180

## Assay Data



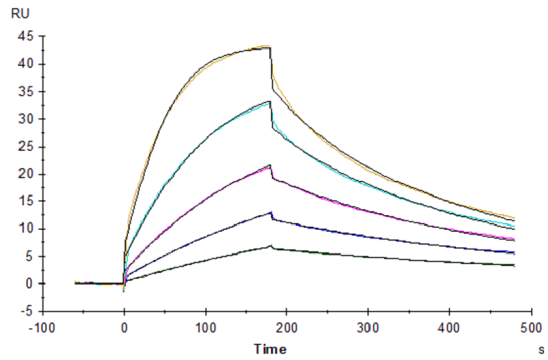

The purity of Cynomolgus B7-1 is greater than 95% as determined by SEC-HPLC.

### ELISA Data




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).