

# Cynomolgus IL-10 Protein

Cat. No. IL1-CM110

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Cynomolgus IL-10 Protein is expressed from HEK293 with His tag at the N-Terminus.<br>It contains Ser19-Asn178.          |
| <b>Accession</b>        | G7NVB0  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 19.78 kDa. Due to glycosylation, the protein migrates to 20-22 kDa based on Tris-Bis PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE  |

## Formulation and Storage

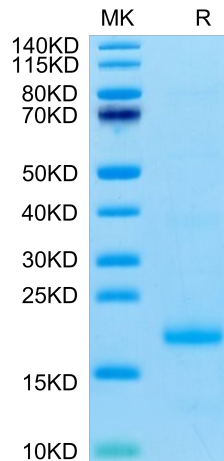
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration 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. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Interleukin 10 (IL10) is a key anti-inflammatory cytokine that can inhibit proinflammatory responses of both innate and adaptive immune cells. An association between IL10 and intestinal mucosal homeostasis became clear with the discovery that IL10 and IL10 receptor (IL10R)-deficient mice develop spontaneous intestinal inflammation. Similarly, patients with deleterious mutations in IL10, IL10RA, or IL10RB present with severe enterocolitis within the first months of life.

## Assay Data

### Tris-Bis PAGE



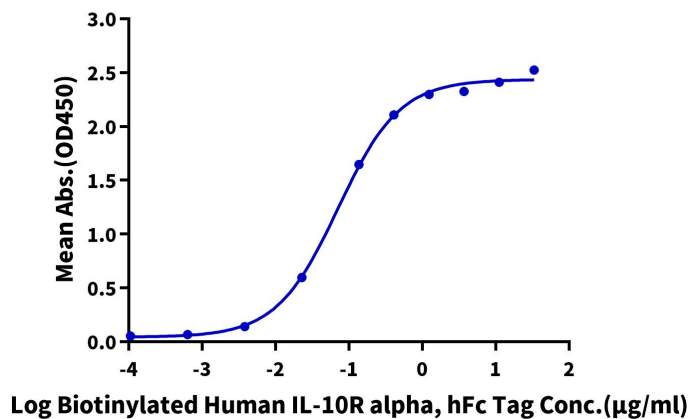
Cynomolgus IL-10 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

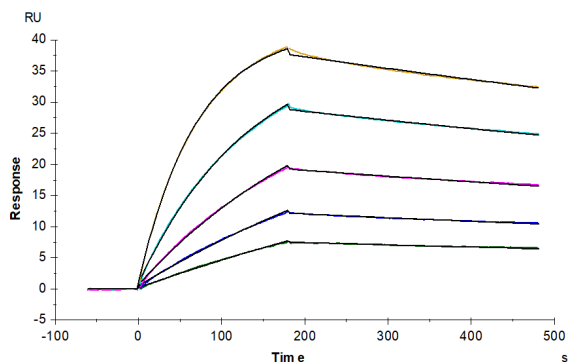
**Cynomolgus IL-10, His Tag ELISA**

0.2µg Cynomolgus IL-10, His Tag Per Well



Immobilized Cynomolgus IL-10, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-10R alpha, hFc Tag with the EC50 of 71.2ng/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-10, His Tag with an affinity constant of 0.93 nM as determined in SPR assay (Biacore T200).