

# Cynomolgus CD200/OX-2 Protein, Ultra Low Endotoxin

Cat. No. CD2-CM120-UL

## Description

<b>Source</b>	Recombinant Cynomolgus CD200/OX-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln56-Gly257.
<b>Accession</b>	A0A2K5TQS2
<b>Molecular Weight</b>	The protein has a predicted MW of 23.66 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

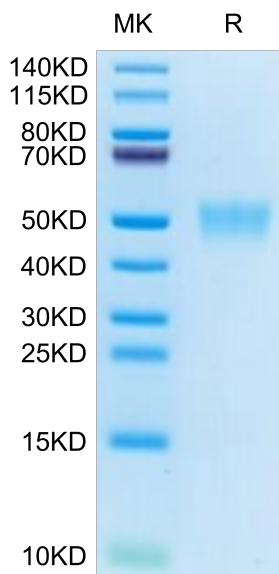
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

CD200 and its receptors are highly expressed in the lung, on epithelial cells and leukocytes, and emerging evidence links dysregulation of the CD200 pathway with asthma. Moreover, pharmacological modulation of CD200 receptors was shown to improve clinical and inflammatory outcomes of preclinical asthma models.

## Assay Data

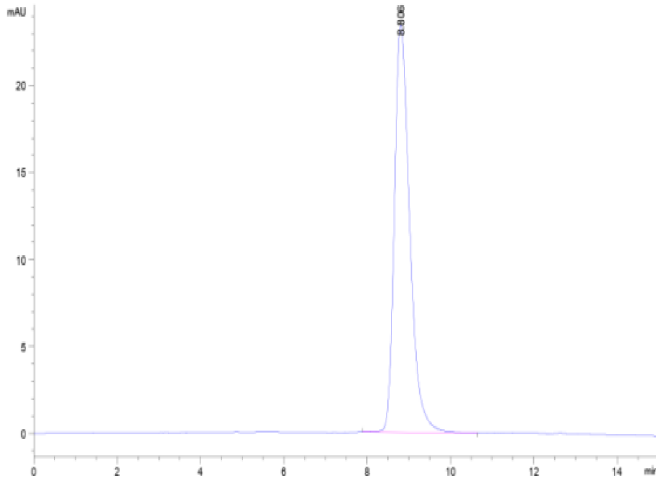
### Bis-Tris PAGE



Cynomolgus CD200 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

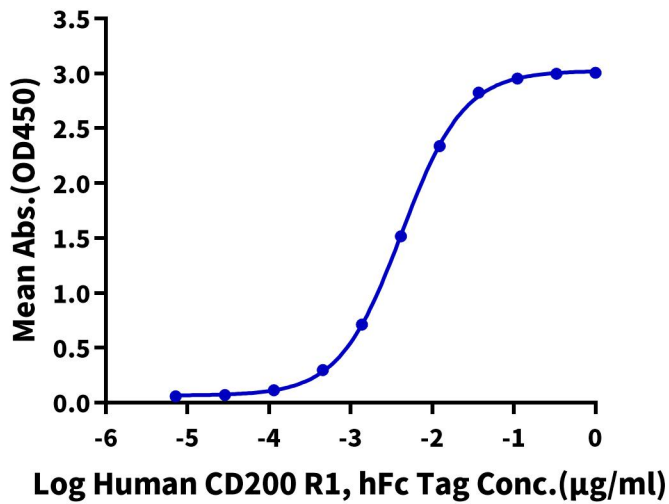


The purity of Cynomolgus CD200 is greater than 95% as determined by SEC-HPLC.

ELISA Data

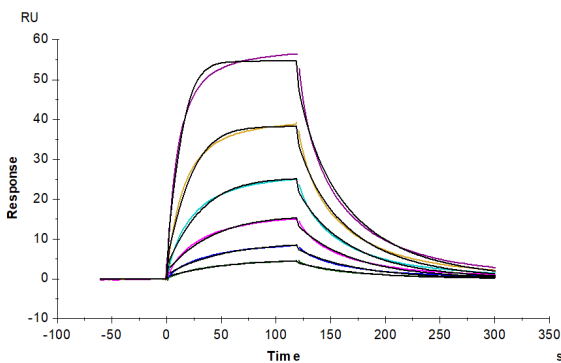
**Cynomolgus CD200, His Tag ELISA**

0.05µg Cynomolgus CD200, His Tag Per Well



Immobilized Cynomolgus CD200, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Human CD200 R1, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus CD200 R1, His Tag immobilized on CM5 Chip can bind Cynomolgus CD200, His Tag with an affinity constant of 35.84 nM as determined in SPR assay (Biacore T200).