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# **CD86 Protein (CD86) (AA 26-240) (His tag)**

3 Images



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#### Overview

Quantity:	100 μg
Target:	CD86
Protein Characteristics:	AA 26-240
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD86 protein is labelled with His tag.

### **Product Details**

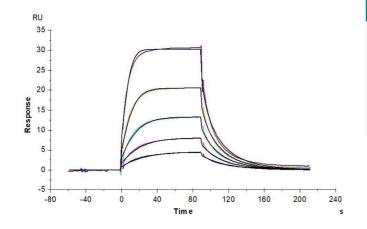
Purpose:	Cynomolgus B7-2/CD86 Protein
Sequence:	Tyr26-His240
Characteristics:	Recombinant Cynomolgus B7-2/CD86 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Tyr26-His240.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.102 $\mu M$ as determined in SPR assay (Biacore T200). See testing image for detail.

## **Target Details**

Expiry Date:

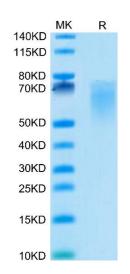
12 months

Target:	CD86
Alternative Name:	B7-2 (CD86 Products)
Background:	B7-1 and B7-2 are homologous costimulatory ligands expressed on the surface of antigen presenting cells (APCs). Binding of these molecules to the T cell costimulatory receptors, CD28 and CTLA-4, is essential for the activation and regulation of T cell immunity. B7-1 and B7-2 do not form hetero-oligomers, underscoring the biological relevance of dimeric and monomeric state of B7-1 and B7-2, respectively.
Molecular Weight:	26.4 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
UniProt:	G7NXR4
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Activated T Cell Proliferation
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months 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.



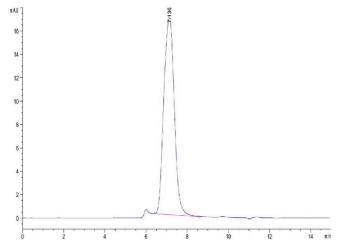
#### **Surface Plasmon Resonance**

**Image 1.** Cynomolgus B7-2, His Tag immobilized on CM5 Chip can bind Cynomolgus CTLA-4, His Tag with an affinity constant of  $0.102~\mu M$  as determined in SPR assay (Biacore T200).



#### **SDS-PAGE**

Image 2. Cynomolgus B7-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Cynomolgus B7-2 is greater than 95 % as determined by SEC-HPLC.