

Recombinant Cynomolgus B7-2/CD86 Protein

Catalog No.: RP02634 **Recombinant**

Sequence Information

Species Cynomolgus
Gene ID
Swiss Prot G7NXR4

Tags
C-His

Synonyms

CD86 molecule; CD86; B70; B7-2
antigen; B72; B7-2; BU63; FUN-1; LAB72;
MGC34413; CD28LG2

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Calculated MW	Observed MW
26.4 kDa	50-70 kDa

Endotoxin
Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

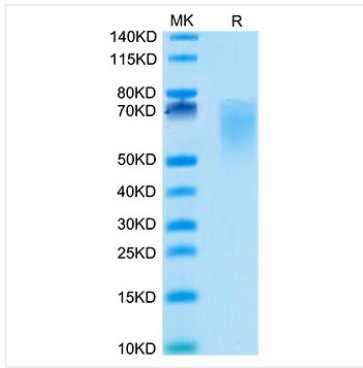
Recombinant Cynomolgus B7-2/CD86 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Tyr26-His240.

Bio-Activity

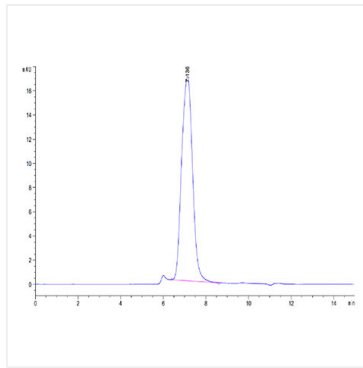
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

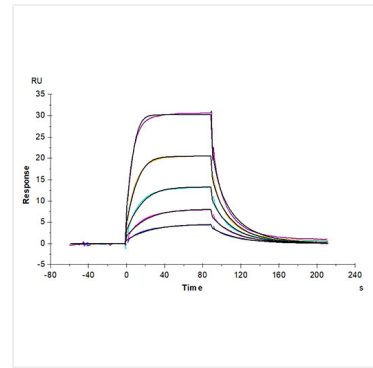
Validation Data



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



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



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