

Recombinant Cynomolgus B7-H2/ICOSLG/CD275 Protein

Catalog No.: RP02644 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102132485	XP_005548617.1

Tags

C-His

Synonyms

CD275; B7H2; B7-H2; B7RP-1; GL50; ICOSL; ICOS-L; ICOSLG; B7RP1; LICOS; ICOS ligand; B7-H2B7-related protein 1; B7RP-1; B7RP1B7-like protein GI50

Product Information

Source

HEK293 cells

Purification

> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Calculated MW Observed MW

27.7 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 freeze-thaw cycles.

Contact

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Background

B7-H2, also known as B7-related protein (B7RP1), ICOS Ligand, and CD275, is an approximately 60 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. B7-H2 is a ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion; induces also B-cell proliferation and differentiation into plasma cells.

Basic Information

Description

Recombinant Cynomolgus B7-H2/ICOSLG/CD275 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Asp19-Thr256) of Cynomolgus B7-H2 fused with His tag at the C-terminus.

Bio-Activity

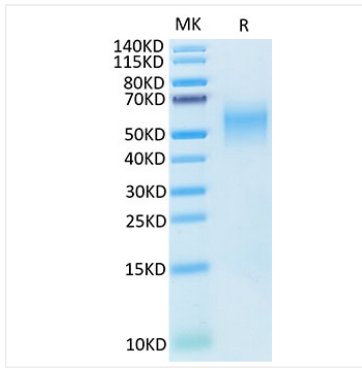
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

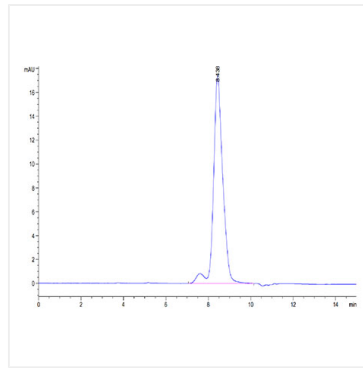
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

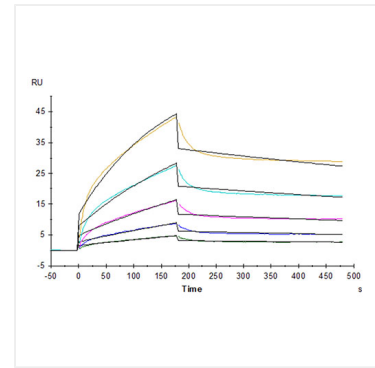
Validation Data



Cynomolgus B7-H2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Cynomolgus B7-H2 is greater than 95% as determined by SEC-HPLC.



Human ICOS, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus B7-H2, His Tag with an affinity constant of 5.42 nM as determined in SPR assay (Biacore T200).