

Cynomolgus B7-H2/ICOSLG Protein

Cat. No. BH7-CM172



Description

Source	Recombinant Cynomolgus B7-H2/ICOSLG Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asp19-Thr256.
Accession	XP_005548617.1
Molecular Weight	The protein has a predicted MW of 27.7 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

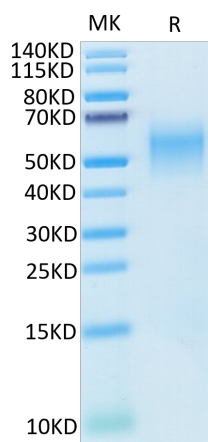
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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

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.

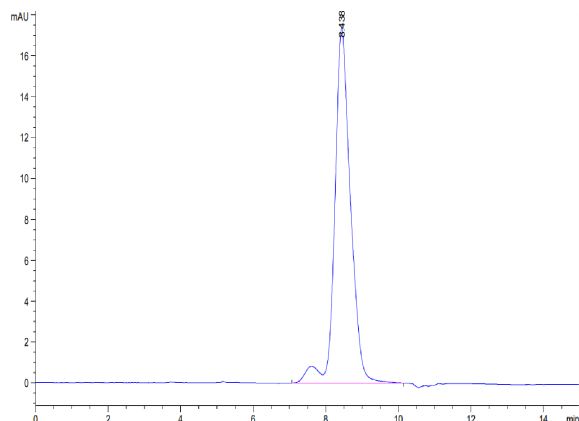
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



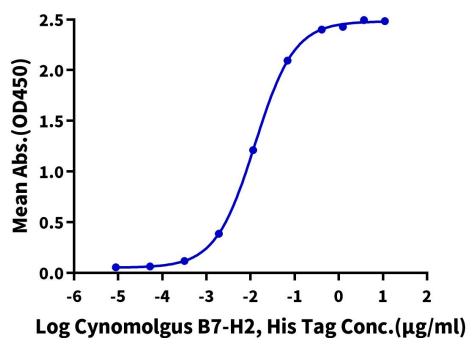
The purity of Cynomolgus B7-H2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

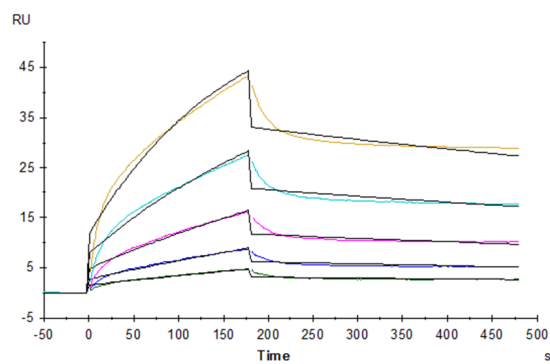
Cynomolgus B7-H2, His Tag ELISA

0.1µg Human ICOS, hFc Tag Per Well



Immobilized Human ICOS, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Cynomolgus B7-H2, His Tag with the EC50 of 12.6ng/ml determined by ELISA (QC Test).

SPR Data



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).