

Cynomolgus B7-H7/HLA2 Protein

Cat. No. BH7-CM177

Description

Source	Recombinant Cynomolgus B7-H7/HLA2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile21-Asn345.
Accession	XP_005548285.2
Molecular Weight	The protein has a predicted MW of 38.31 kDa. Due to glycosylation, the protein migrates to 60-70 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

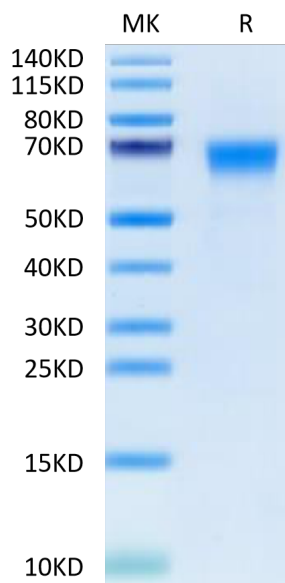
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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-H7, also known as HHLA2 (HERV-H LTR-associating 2), is a member of the B7 family of immune regulatory proteins. Through interaction with TMIGD2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.

Assay Data

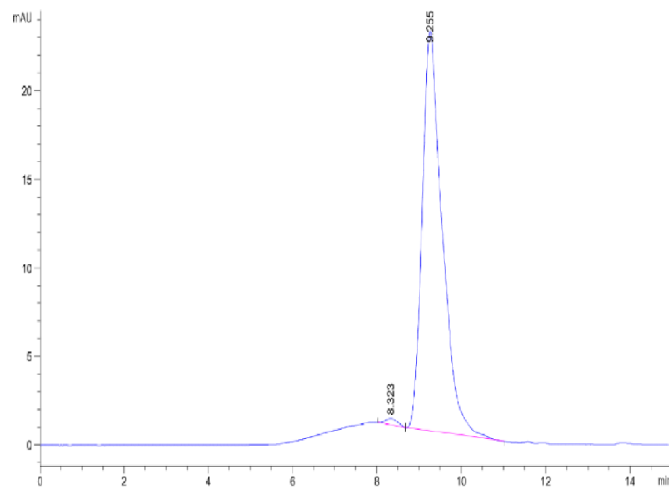
Bis-Tris PAGE



Cynomolgus B7-H7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

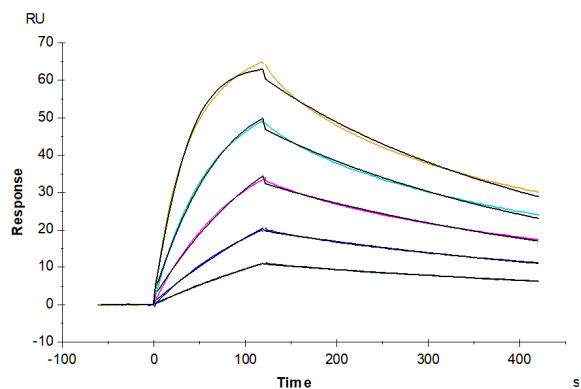
SEC-HPLC

Assay Data



The purity of Cynomolgus B7-H7 is greater than 95% as determined by SEC-HPLC.

SPR Data



Cynomolgus B7-H7, His Tag captured on CM5 Chip via anti-his antibody can bind Human CD28H, hFc Tag with an affinity constant of 7.86 nM as determined in SPR assay (Biacore T200).