# Cynomolgus B7-H7/HHLA2 Protein

**Cat. No.** BH7-CM177

## Description

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|---|---|
| **Source** | Recombinant Cynomolgus B7-H7/HHLA2 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

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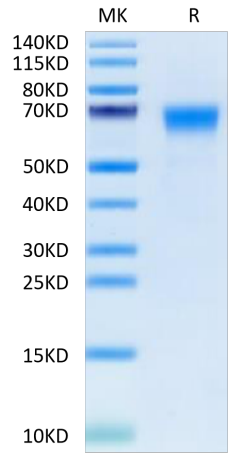
|---|---|
| **Formulation** | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the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

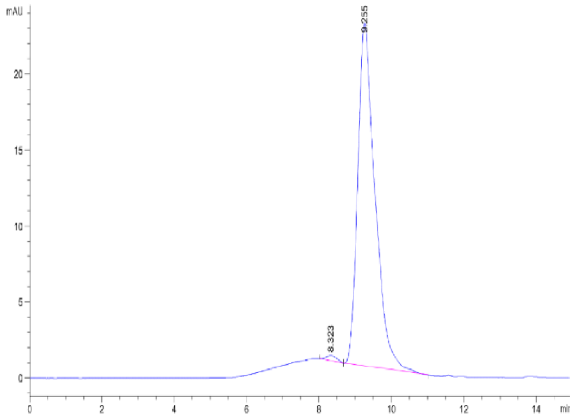
## Assay Data

### Bis-Tris PAGE




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

### SEC-HPLC




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

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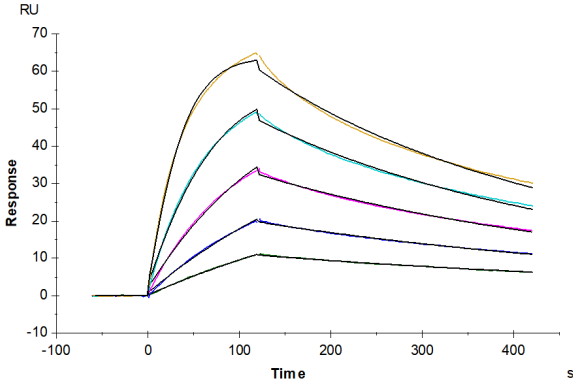
## Assay Data

### 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).