

Rev03
 Update: Aug,08,2025

DATASHEET

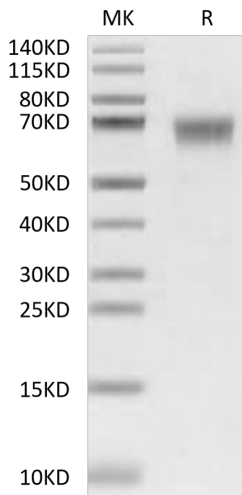
B7-H7/HHLA2, His, Cynomolgus

Cat. No.: Z04743

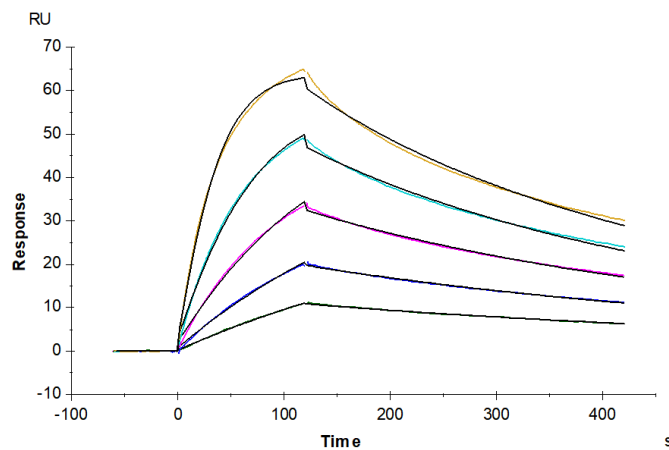
Product Introduction

Species	Cynomolgus
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-right: 10px;"> B7-H7/HHLA2 (Ile21-Asn345) Accession # XP_005548285.2 </div> <div style="background-color: #76923c; color: white; padding: 5px; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	B7-H7/HHLA2, His, Cynomolgus captured on CM5 Chip via antiHis antibody can bind Human CD28H, hFc Tag in SPR assay (Biacore T200). Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	38.31 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

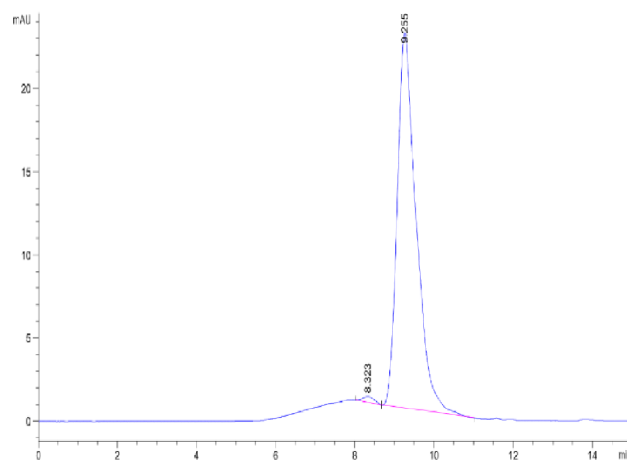
Examples



B7-H7/HHLA2, His, Cynomolgus on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



B7-H7/HHLA2, His, Cynomolgus, 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).



The purity of B7-H7/HHLA2, His, Cynomolgus is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : B7H7; B7-H7; HHLA2; B7 Homolog 7

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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