Human B7-H7/HHLA2 Protein

Cat. No. BH7-HM277

Description

Source	Recombinant Human B7-H7/HHLA2 Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ile23-Asn344.
Accession	Q9UM44-1
Molecular Weight	The protein has a predicted MW of 63.7 kDa. Due to glycosylation, the protein migrates to 78-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per ug by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

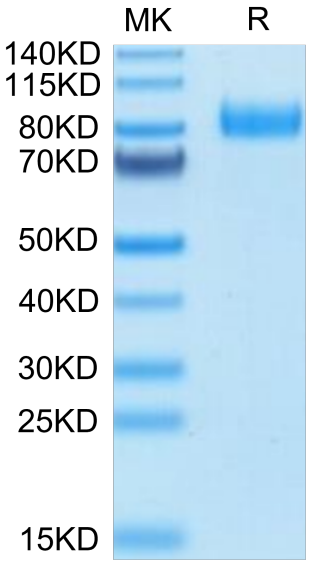
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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



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

SEC-HPLC

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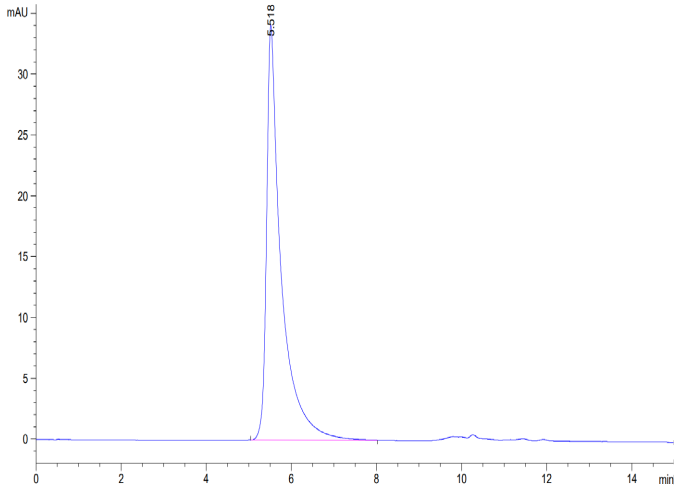
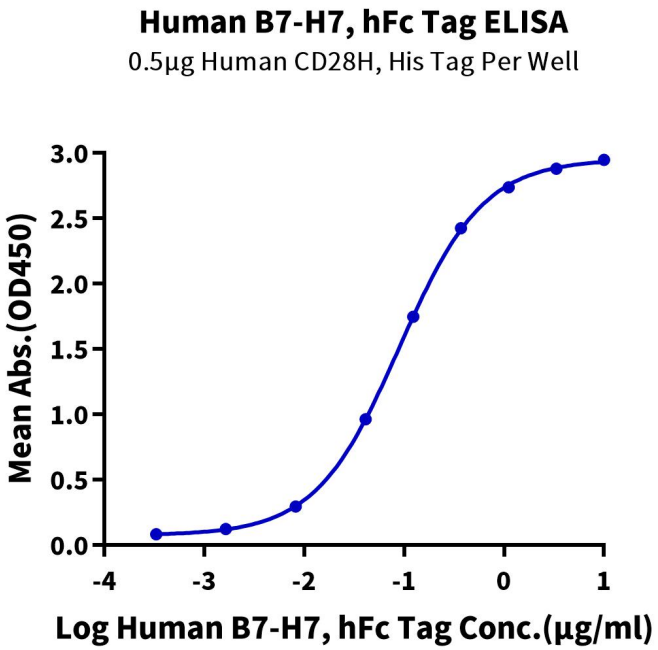
Assay Data



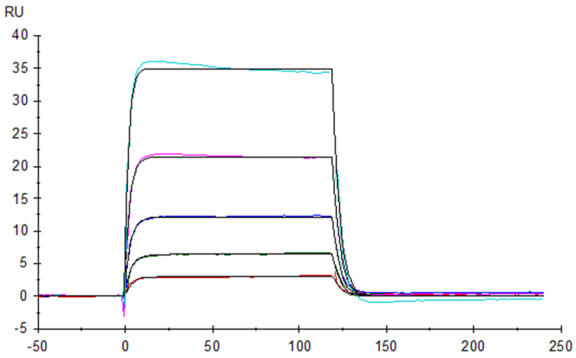
The purity of Human B7-H7 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human CD28H, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Human B7-H7, hFc Tag with the EC50 of 90.0ng/ml determined by ELISA (QC Test).

SPR Data



Human B7-H7, hFc Tag captured on CM5 Chip via Protein A can bind Human KIR3DL3, His Tag with an affinity constant of 334 nM as determined in SPR assay (Biacore T200).