

Human B7-H7/HHLA2 Protein

Cat. No. BH7-HM177

Description

Source	Recombinant Human B7-H7/HHLA2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ile23-Asn344.
Accession	Q9UM44-1
Molecular Weight	The protein has a predicted MW of 38.1 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

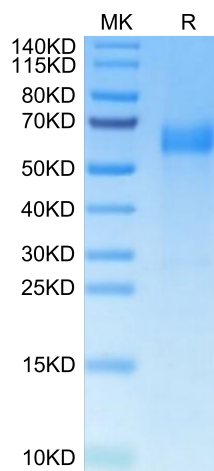
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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.

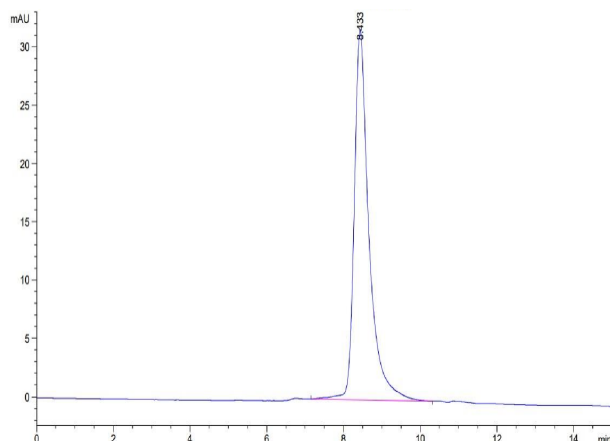
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



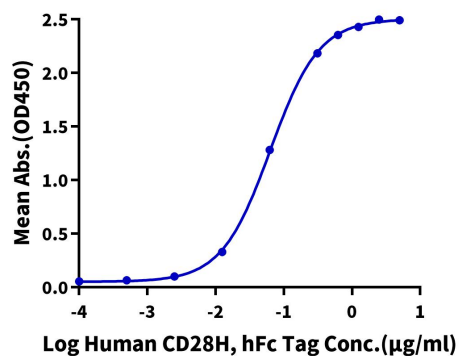
The purity of Human B7-H7 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human B7-H7, His Tag ELISA

0.5µg Human B7-H7, His Tag Per Well



Immobilized Human B7-H7, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Human CD28H, hFc Tag with the EC50 of 63.4 ng/ml determined by ELISA (QC Test).