



## Synonym

B7-H7, HHLA2, B7 Homolog 7

## Source

Human B7-H7, Fc Tag (B77-H5257) is expressed from human 293 cells (HEK293). It contains AA Ile 23 - Asn 344 (Accession # [Q9UM44-1](#)).

Predicted N-terminus: Ile 23

## Molecular Characterization

B7-H7(Ile 23 - Asn 344)	Fc(Pro 100 - Lys 330)
Q9UM44-1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 63.4 kDa. The protein migrates as 70-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

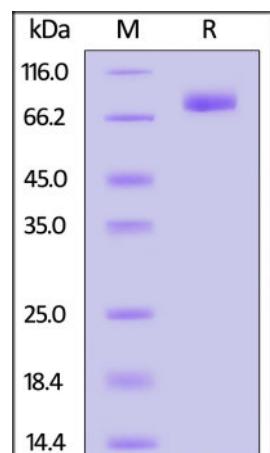
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

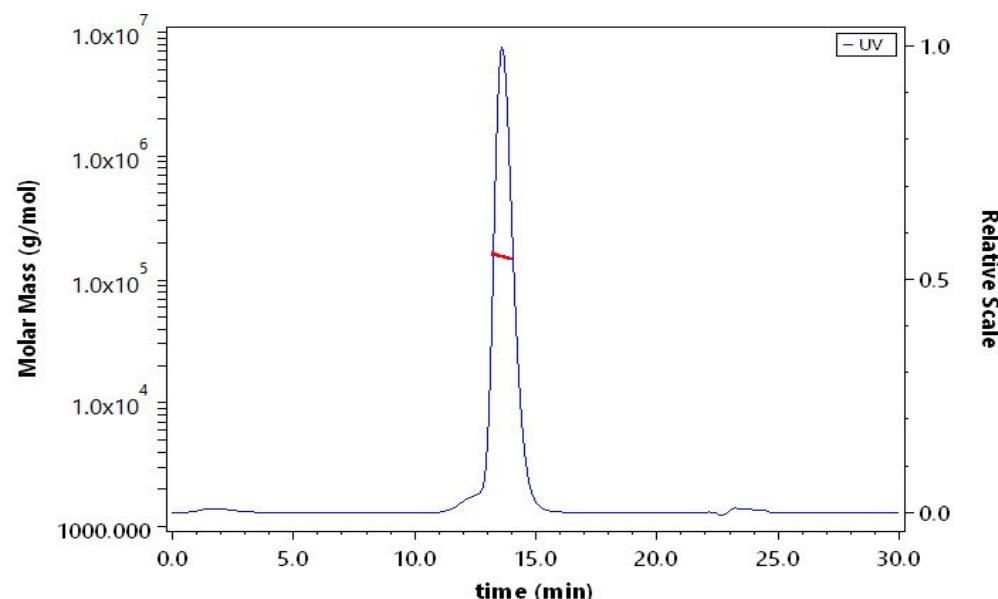
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human B7-H7, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



The purity of Human B7-H7, Fc Tag (Cat. No. B77-H5257) is more than 95% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.

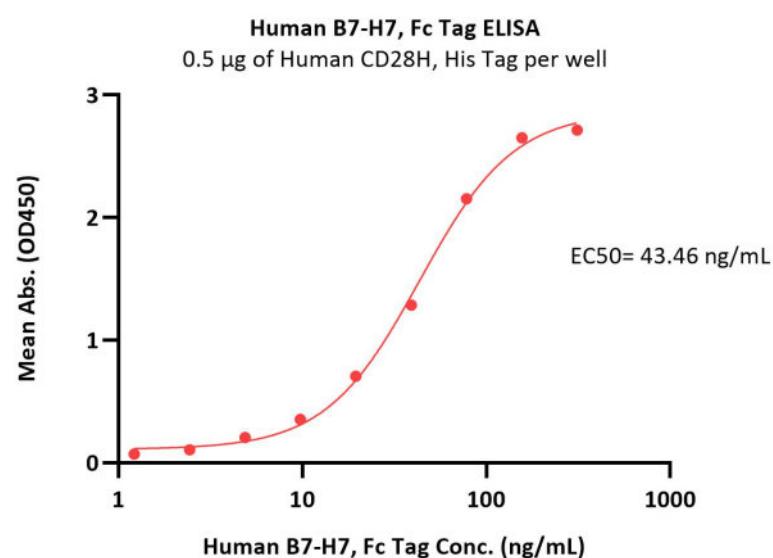
[Report](#)

## Bioactivity-ELISA

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Immobilized Human CD28H, His Tag (Cat. No. CDH-H52H3) at 5 µg/mL (100 µL/well) can bind Human B7-H7, Fc Tag (Cat. No. B77-H5257) with a linear range of 1-78 ng/mL (QC tested).

## Background

B7-H7 (HHLA2) is a newly identified B7 family member that regulates human T-cell functions. B7-H7 was previously known as human endogenous retrovirus-H long terminal repeat associating 2 (HHLA2) with unidentified function. Recently, B7-H7 has been identified as a specific ligand for human CD28H. The B7-H7-CD28H pathway strongly promoted CD4+ T-cell proliferation and cytokine production via an AKT-dependent signaling cascade in the presence of TCR signaling, suggesting B7-H7 comprises a new co-stimulatory pathway. The first IgV domain of B7-H7, which presumably binds to a putative receptor, shows the highest homology to other B7 family members.

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