

# Human B7-H3 (4Ig) / B7-H3b Protein, His Tag (MALS verified)

Catalog # B7B-H52E7



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

4Ig-B7-H3, B7-H3, CD276, PSEC0249, UNQ309, PRO352, B7 homolog 3

## Source

Human B7-H3 (4Ig), His Tag(B7B-H52E7) is expressed from human 293 cells (HEK293). It contains AA Gly 27 - Thr 461 (Accession # [Q5ZPR3-1](#)).

Predicted N-terminus: Gly 27

## Molecular Characterization

B7-H3 (4Ig)(Gly 27 - Thr 461)  
Q5ZPR3-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 48.5 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

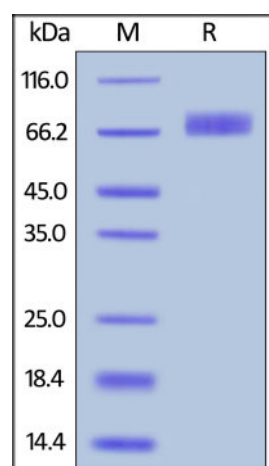
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

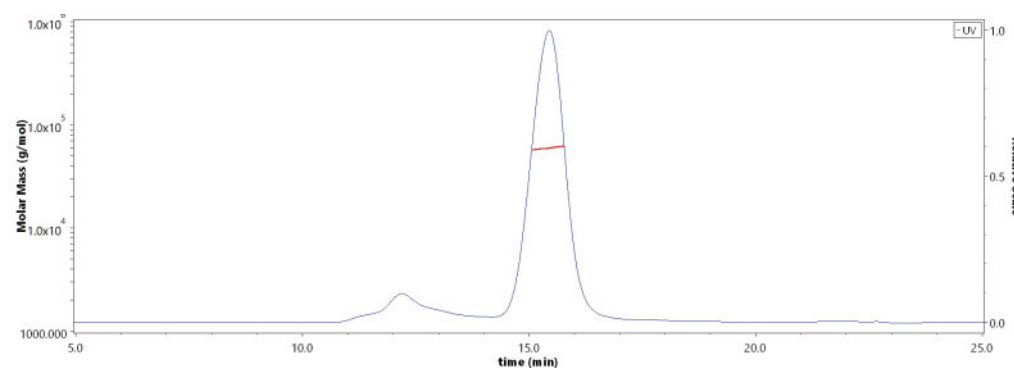
## SDS-PAGE



Human B7-H3 (4Ig), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS

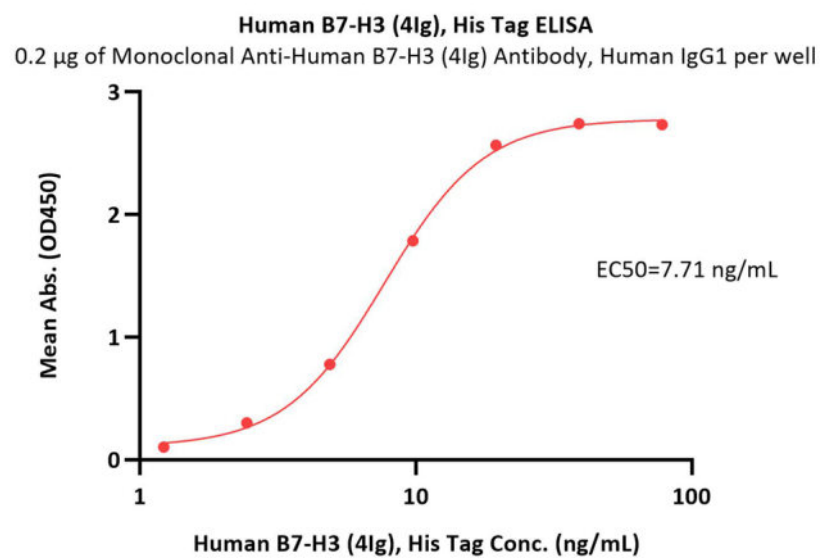
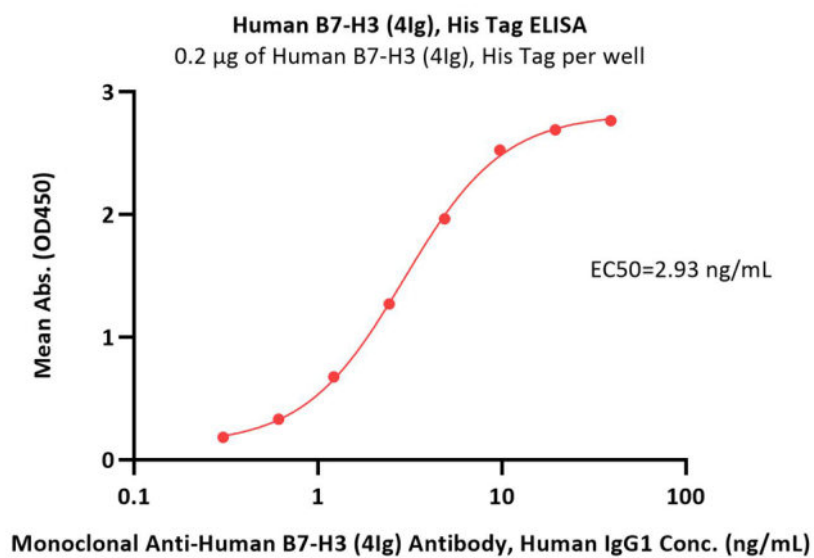


The purity of Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) is more than 85% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!

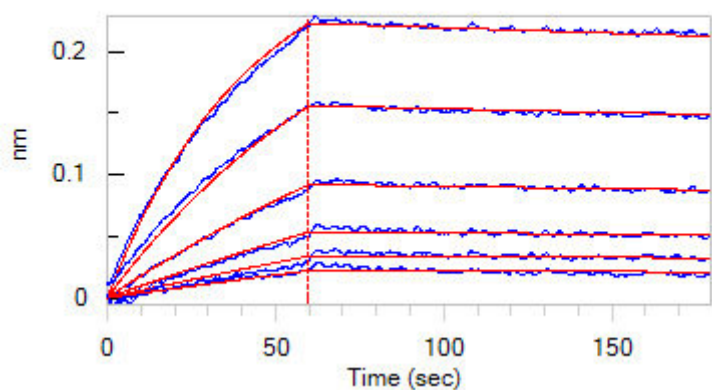




Immobilized Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).

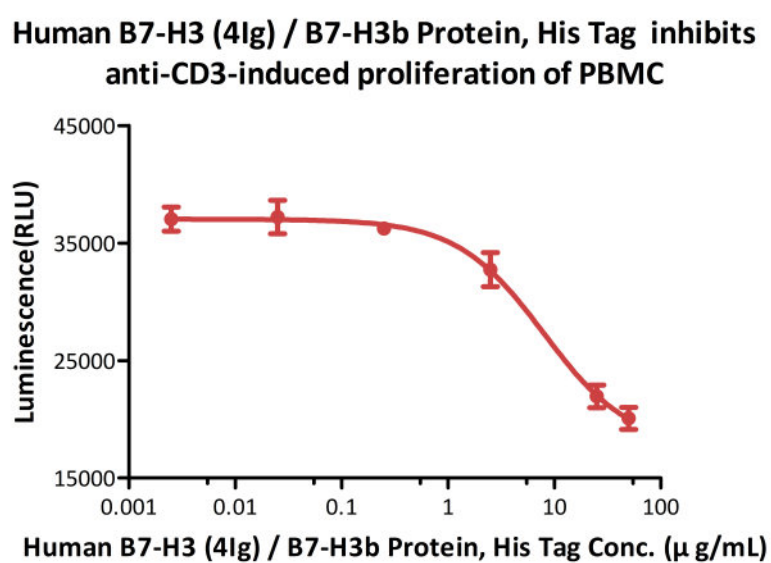
Immobilized Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 at 2 µg/mL (100 µL/well) can bind Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) with a linear range of 1-10 ng/mL (Routinely tested).

**Bioactivity-BLI**



Loaded Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 on Protein A Biosensor, can bind Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) with an affinity constant of 1.74 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

**Bioactivity-Bioactivity CELL BASE**



Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) inhibits Anti-CD3-induced proliferation of PBMC. The EC50 for this effect is 7.95 µg/mL (Routinely tested).

Discounts, Gifts, and more!





## Background

Human B7 homolog 3 (B7-H3) is a member of the B7 family of immune proteins that provide signals for the regulation of immune responses. Other family members include B7-1, B7-2, B7-H1/PD-L1, B7-H2, and PD-L2. B7 family proteins are type I transmembrane immunoglobulin (Ig) superfamily members that contain extracellular Ig V-like and Ig C-like domains with a short cytoplasmic tail. Termed 4IgB7-H3 or B7-H3b, this molecule has two additional Ig-like domains (one V-type and one C-type) and shows a ubiquitous expression pattern.

## Clinical and Translational Updates

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and more!

