

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

Catalog # B7B-H52E7



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 when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC 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

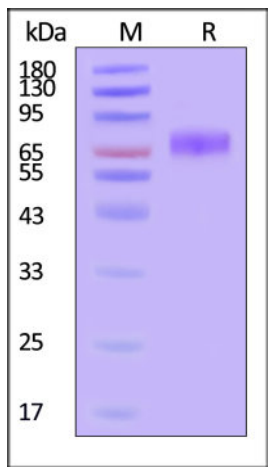
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

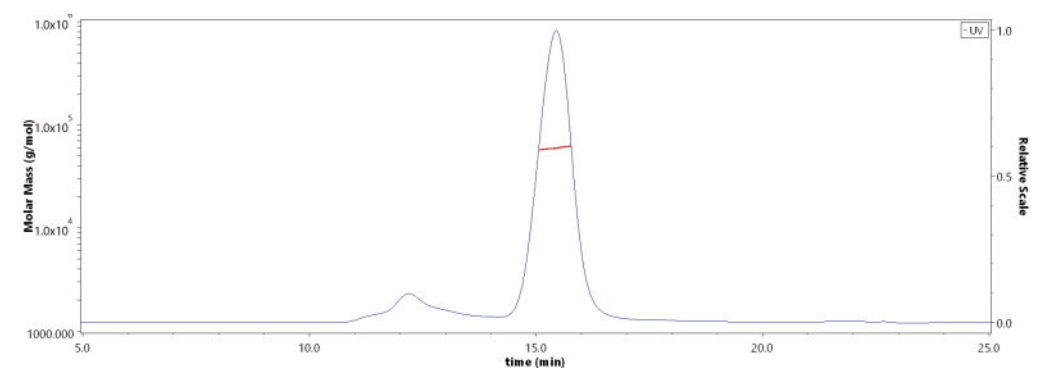
SDS-PAGE



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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS



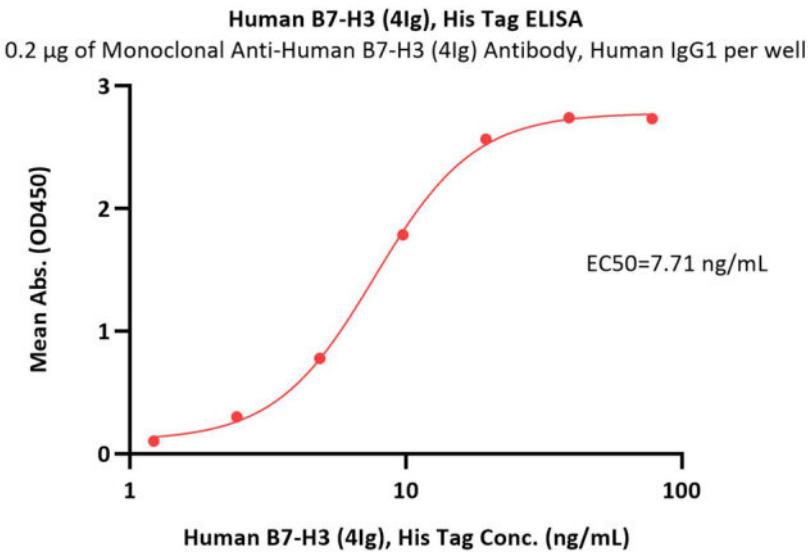
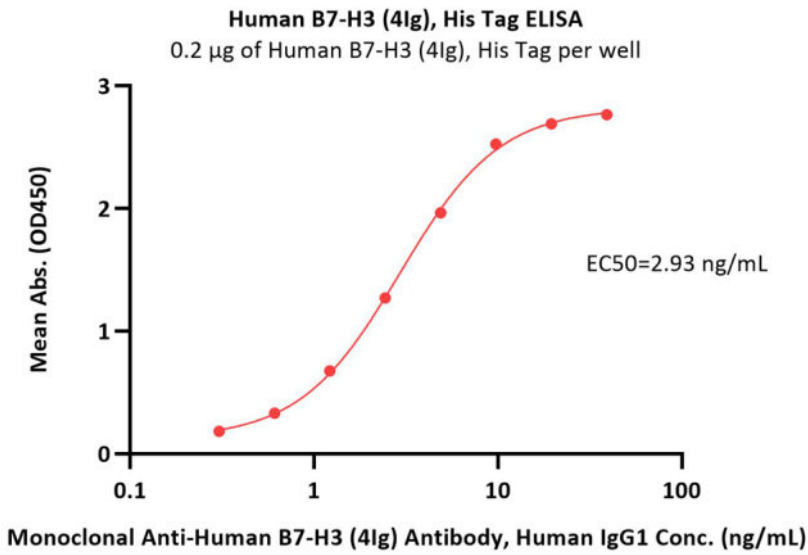
The purity of Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) is more than 85% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.
[Report](#)

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and more!



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

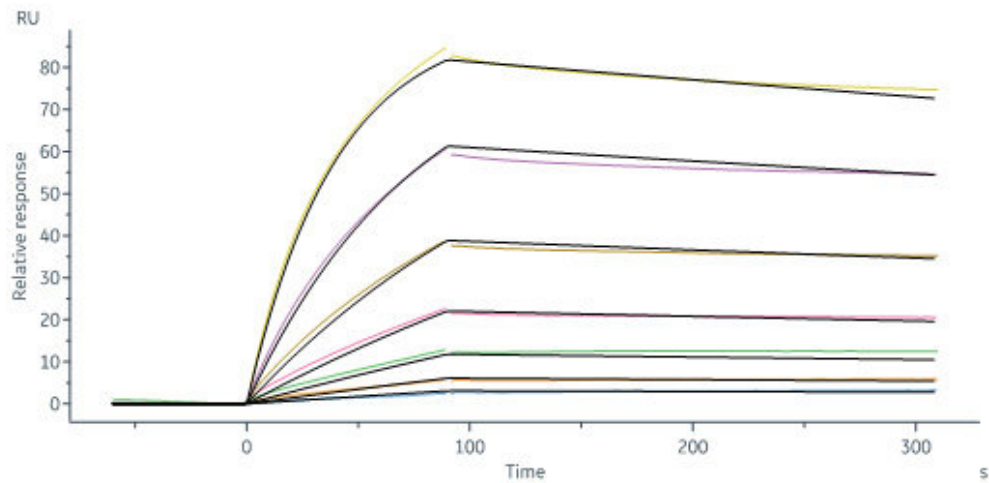
Catalog # B7B-H52E7



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).

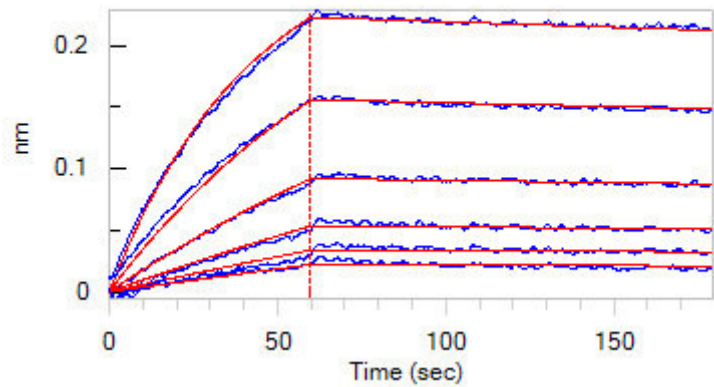
Immobilized Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 at 2 µg/mL (100 µL/well) can bind Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) with a linear range of 1-10 ng/mL (Routinely tested).

Bioactivity-SPR



Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 captured on Protein A Chip can bind Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) with an affinity constant of 4.41 nM as determined in SPR assay (Biacore 8K) (Routinely tested).

Bioactivity-BLI



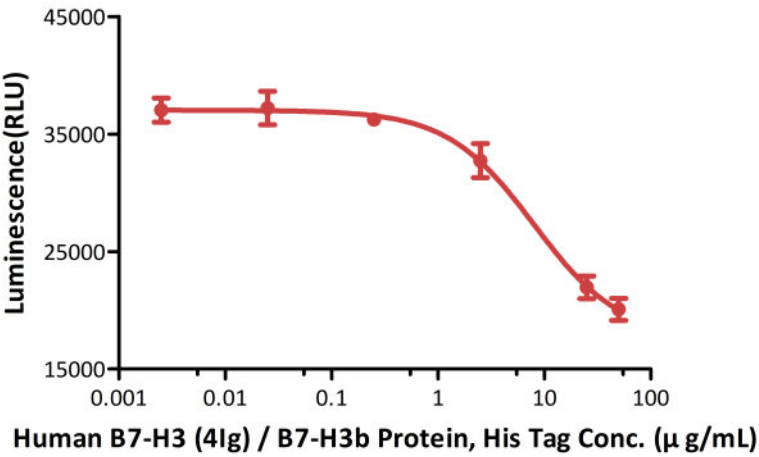
Loaded Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 on Protein A Biosensor, can bind Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) with an affinity constant of 1.74 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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Bioactivity-CELL BASE

Human B7-H3 (4Ig) / B7-H3b Protein, His Tag inhibits anti-CD3-induced proliferation of PBMC



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).

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.

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