

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
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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.

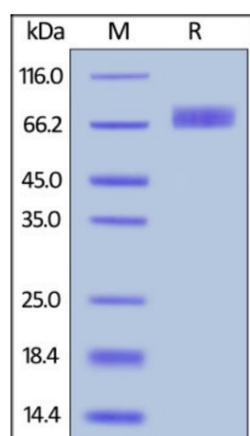
Storage

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

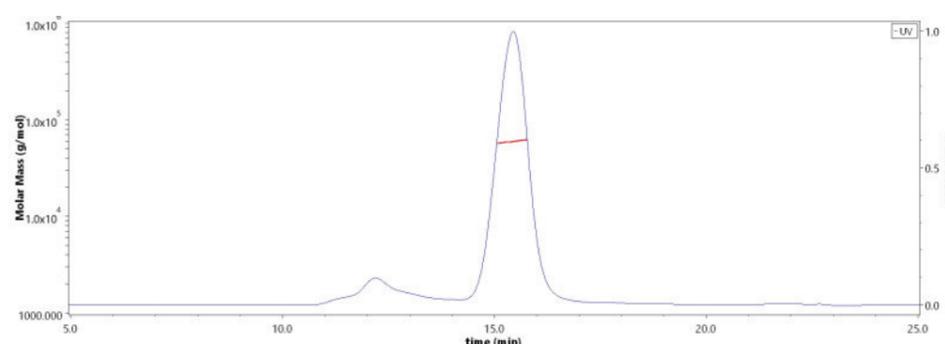
Please avoid repeated freeze-thaw cycles.

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.

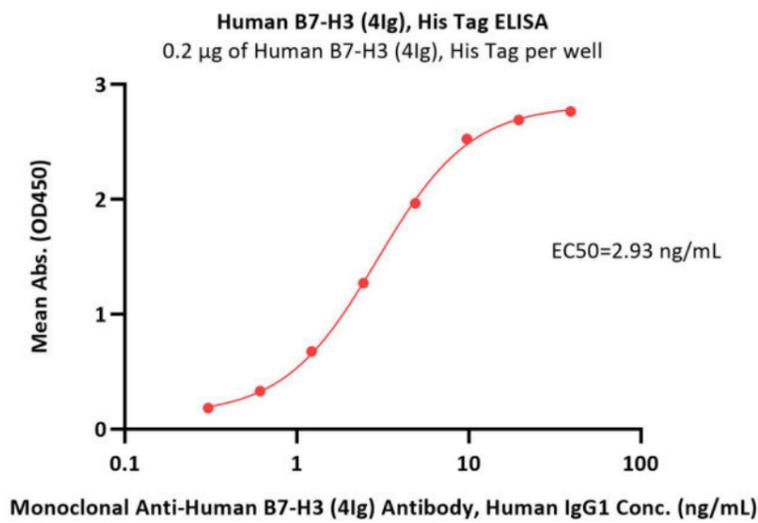
SDS-PAGE

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

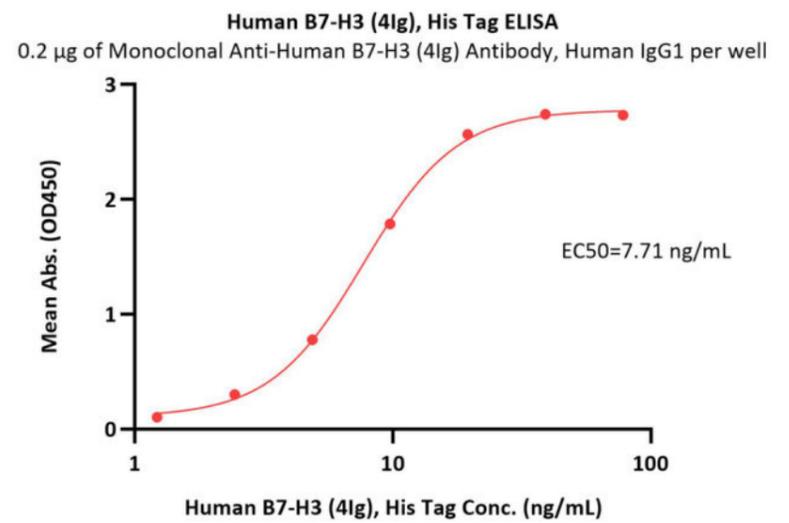
Bioactivity-ELISA**SEC-MALS**

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](#)



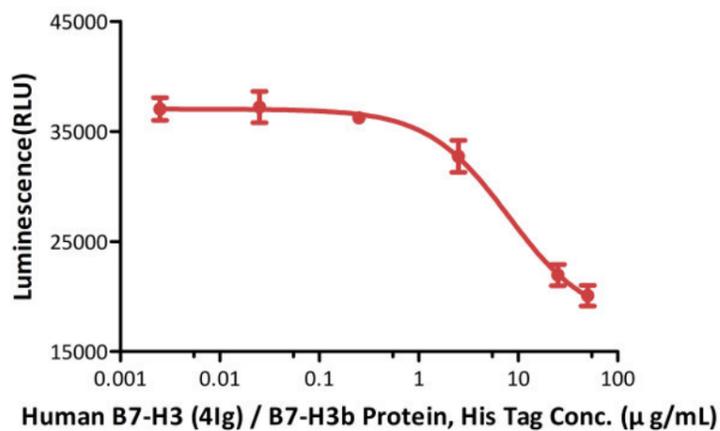
Immobilized Human B7-H3 (4Ig), His Tag (Cat. No. B7B-H52E7) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).



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-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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.