

**Synonym**

B7-H5,SISP1,Gi24,VISTA

**Source**

Human B7-H5 Protein, Mouse IgG2a Fc Tag(B75-H5258) is expressed from human 293 cells (HEK293). It contains AA Phe 33 - Ala 194 (Accession # [AAH20568.1](#)).

Predicted N-terminus: Phe 33

**Molecular Characterization**

B7-H5(Phe 33 - Ala 194) AAH20568.1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus

The protein has a calculated MW of 45.0 kDa. The protein migrates as 55-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

&gt;95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 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.*

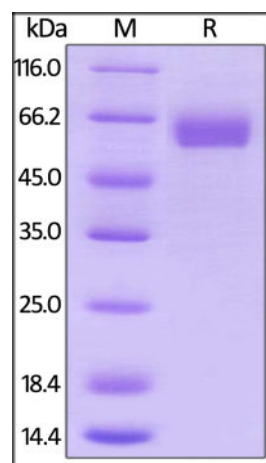
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

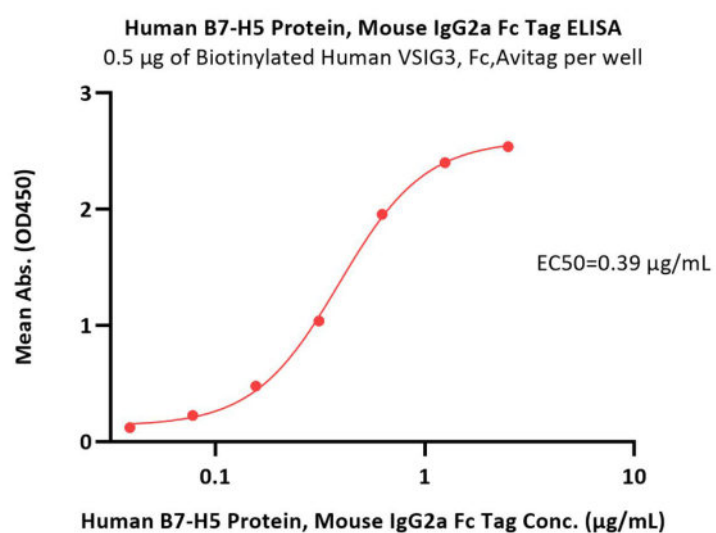
This product is stable after storage at:

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

**SDS-PAGE**

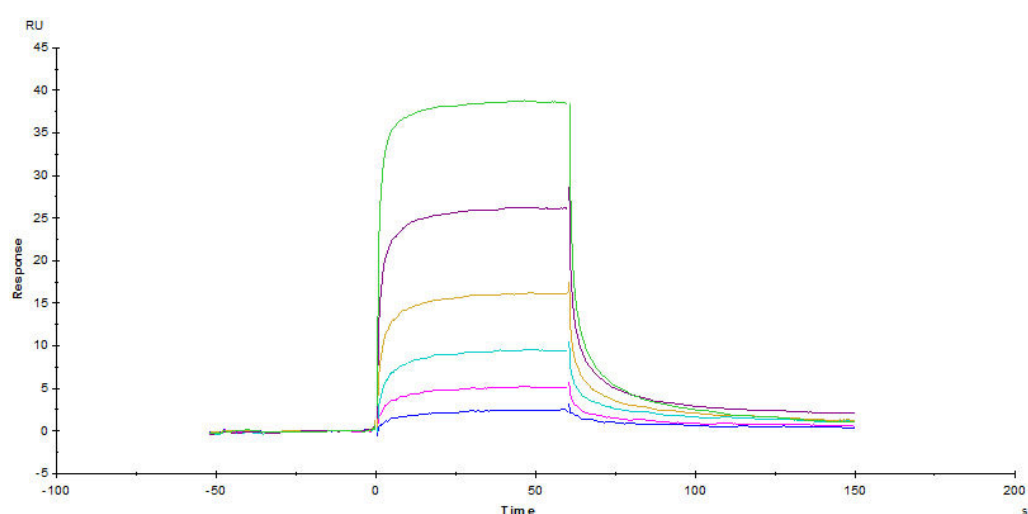
Human B7-H5 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



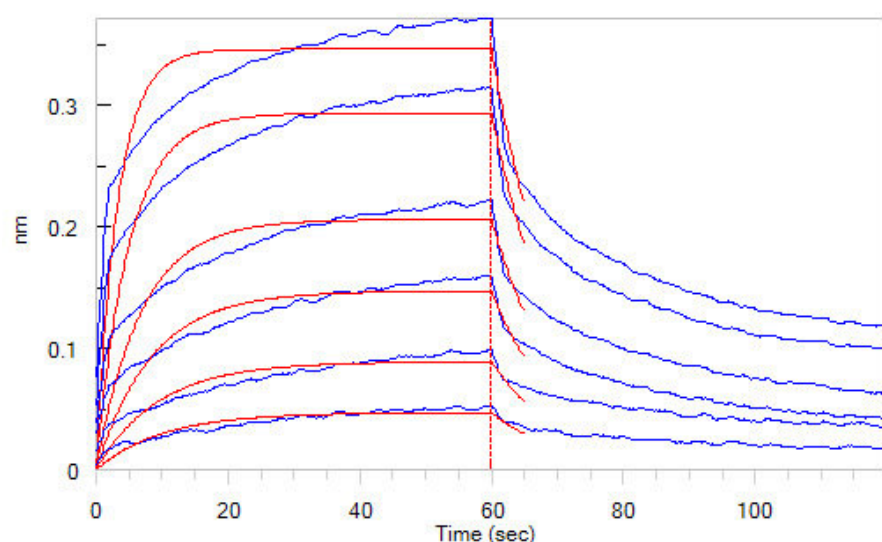
Immobilized Biotinylated Human VSIG3, Fc,Avitag (Cat. No. VS3-H82F9) at 5 µg/mL (100 µL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Human B7-H5 Protein, Mouse IgG2a Fc Tag (Cat. No. B75-H5258) with a linear range of 0.039-0.625 µg/mL (QC tested).

**Bioactivity-SPR**



Human B7-H5 Protein, Mouse IgG2a Fc Tag (Cat. No. B75-H5258) Captured on CM5 chip via anti-mouse antibodies surface can bind Human VSIG3, Fc Tag (Cat. No. VS3-H5258) with an affinity constant of 8.87 µM as determined in a SPR assay (Biacore T200) (Routinely tested).

**Bioactivity-BLI**



Loaded Biotinylated Human VSIG3, Fc,Avitag (Cat. No. VS3-H82F9) on SA Biosensor, can bind Human B7-H5, Mouse IgG2a Fc Tag (Cat. No. B75-

H5258) with an affinity constant of 2.6  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Platelet receptor Gi24, also known as B7-H5 and stress-induced secreted protein-1 (Sisp-1), is a protein that in humans is encoded by the C10orf54 gene, which contains 1 Ig-like (immunoglobulin-like) domain. As for C10orf54 gene, C10orf54 appears to positively interact with BMP-4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state on ESCs. Human C10orf54 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30 kDa extracellular fragment plus a 25-30 kDa membrane-bound fragment.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.