Human B7-H5 / Gi24 / VISTA Protein, Mouse IgG2a Fc Tag, low endotoxin

Catalog # B75-H5258

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

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 / rFC method.

Purity

>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

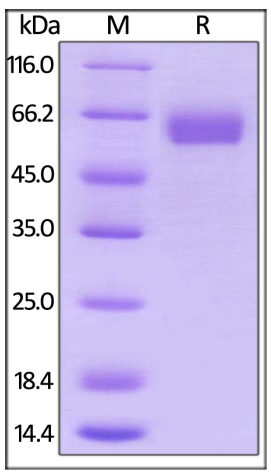
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

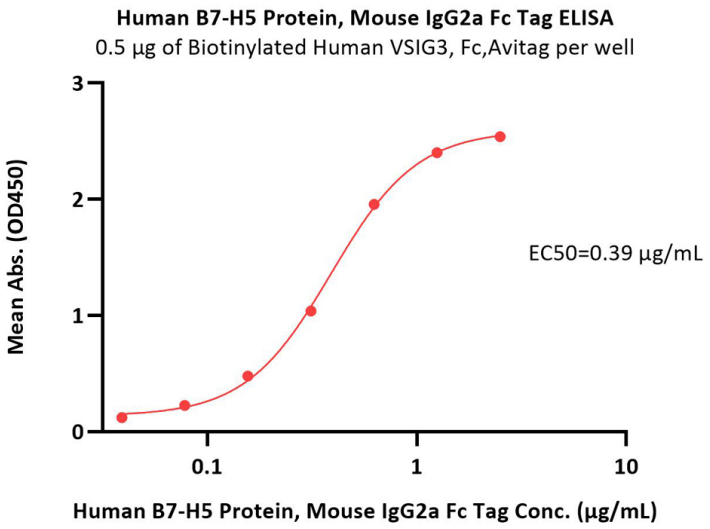
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



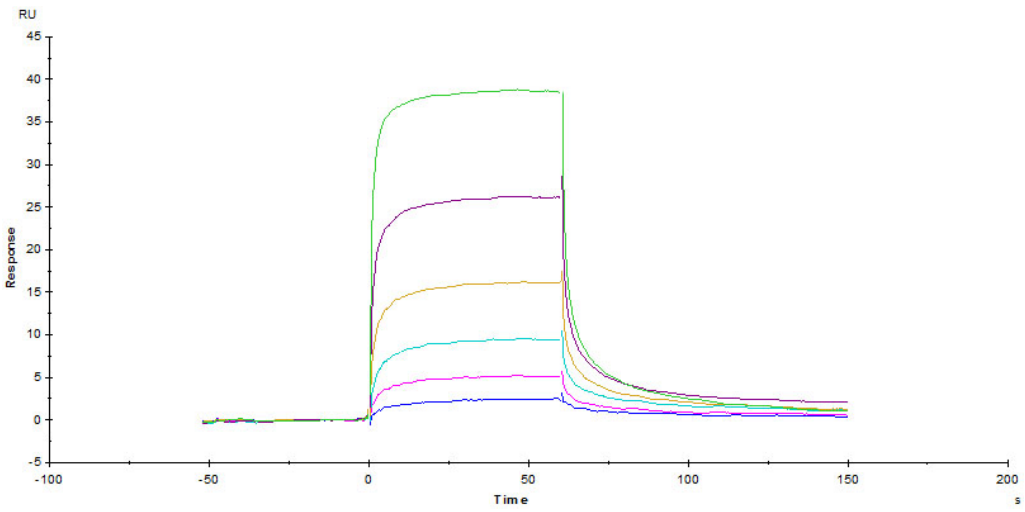
Human B7-H5 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



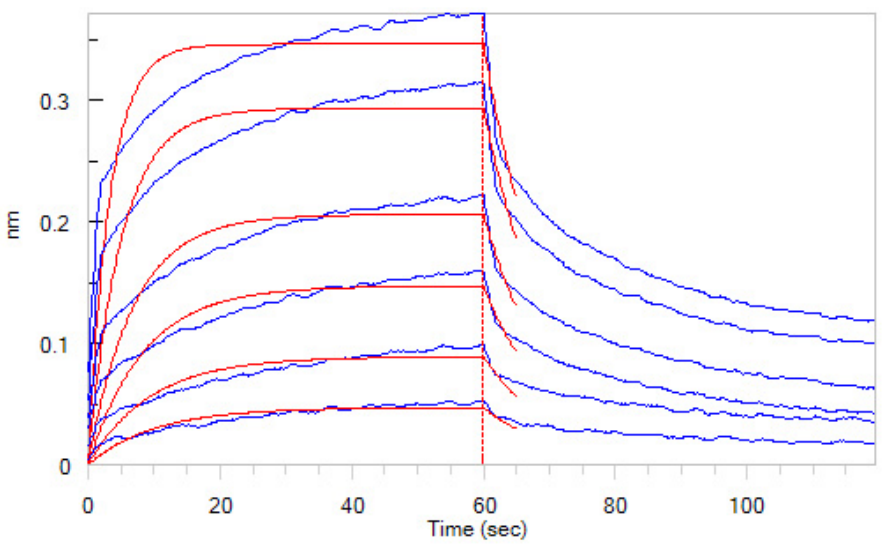
Immobilized Biotinylated Human VSIG3, Fc,Avitag (Cat. No. VS3-H82F9) at 5 μg/mL (100 μL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate, can bind Human B7-H5 Protein, Mouse IgG2a Fc Tag (Cat. No. B75-H5258) with a linear range of 0.039-0.625 μg/mL (QC tested).

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 μM 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.