

Synonym

B7-H5,SISP1,Gi24,VISTA

Source

Human B7-H5, Fc Tag(B75-H5259) is expressed from human 293 cells (HEK293). It contains AA Phe 33 - Ala 194 (Accession # [AAH20568](#)).

Predicted N-terminus: Phe 33

Molecular Characterization

| | |
|-------------------------------------|---------------------------------|
| B7-H5(Phe 33 - Ala 194) AAH20568 | Fc(Pro 100 - Lys 330) P01857 |
|-------------------------------------|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 44.8 kDa. The protein migrates as 60-66 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.

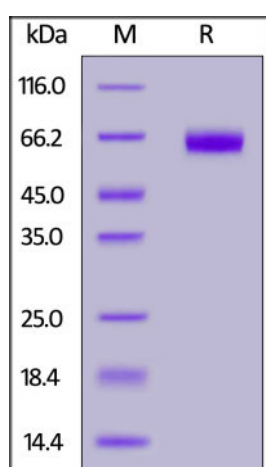
Storage

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

Please avoid repeated freeze-thaw cycles.

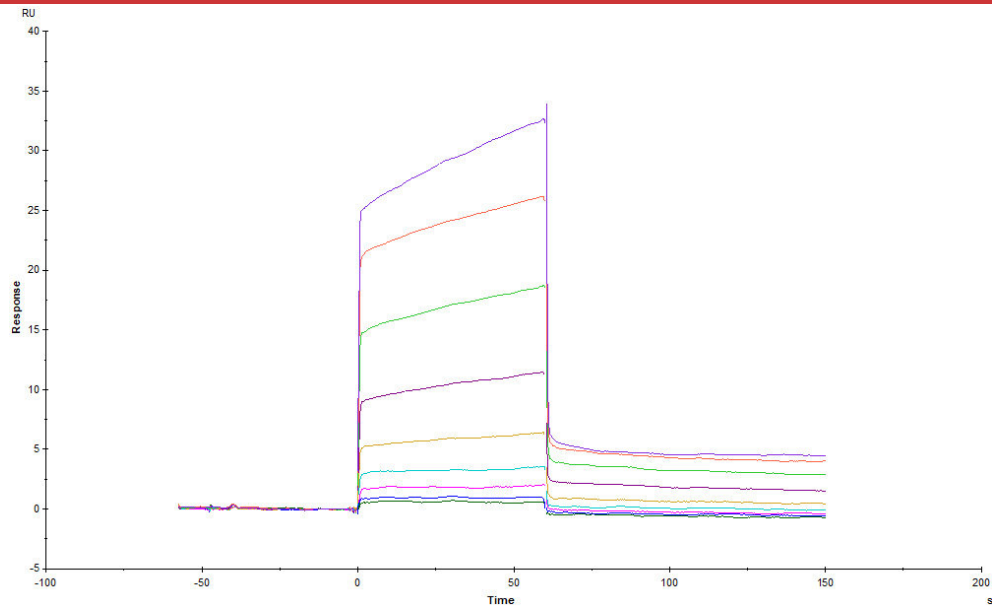
This product is stable after storage at:

- -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-H5, 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-SPR



Human PSGL-1, His Tag (Cat. No. PS1-H52H9) immobilized on CM5 Chip can bind Human B7-H5, Fc Tag (Cat. No. B75-H5259) with an affinity constant of 0.213 μ M as determined in a SPR assay (Biacore T200) (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 if you have any question on this product.