

**Synonym**

TNFRSF14, ATAR, HVEA, HVEM, LIGHTR, TR2, CD270

**Source**

Human HVEM, Mouse IgG2a Fc Tag(HVM-H5257) is expressed from human 293 cells (HEK293). It contains AA Leu 39 - Val 202 (Accession # [Q92956-1](#)).

Predicted N-terminus: Leu 39

**Molecular Characterization**

HVEM (Leu 39 - Val 202) Q92956-1	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 44.2 kDa. The protein migrates as 55-66 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.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, 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.*

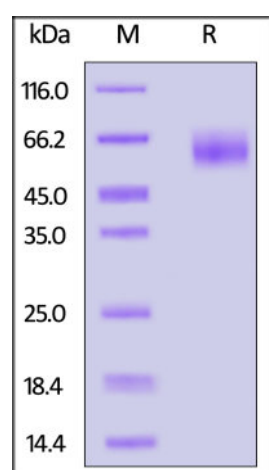
**Storage**

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

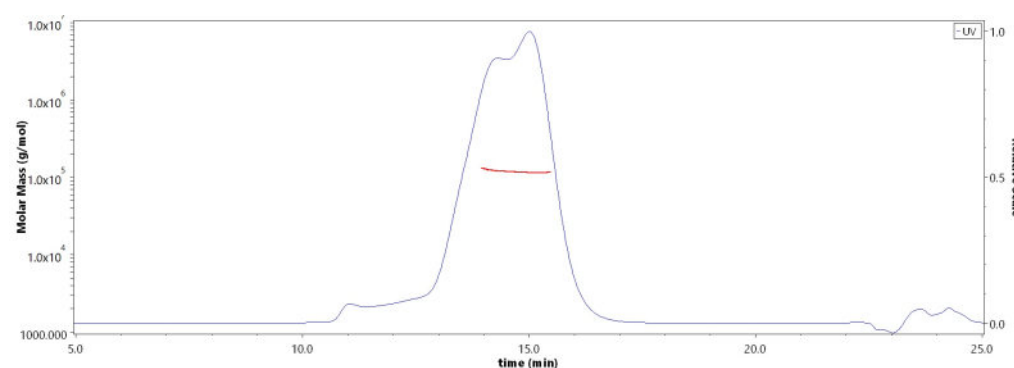
*Please avoid repeated freeze-thaw cycles.*

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.

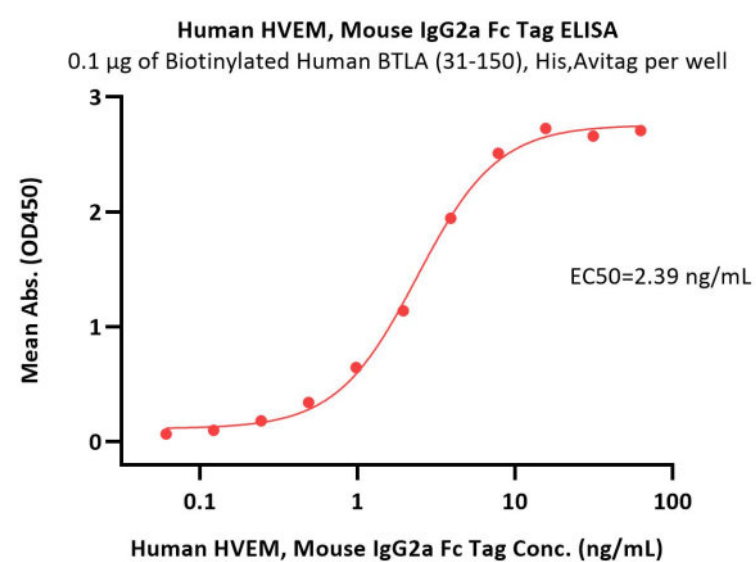
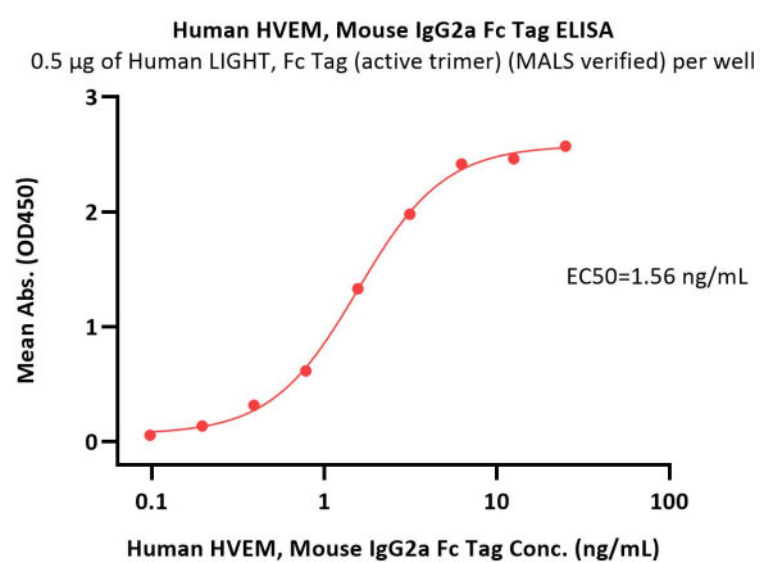
**SDS-PAGE**

Human HVEM, Mouse IgG2a Fc 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 HVEM, Mouse IgG2a Fc Tag (Cat. No. HVM-H5257) is more than 90% and the molecular weight of this protein is around 105-125 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human LIGHT, Fc Tag (active trimer) (MALS verified) (Cat. No. LIT-H5269) at 5 µg/mL (100 µL/well) can bind Human HVEM, Mouse IgG2a Fc Tag (Cat. No. HVM-H5257) with a linear range of 0.4-6 ng/mL (QC tested).

Immobilized Biotinylated Human BTLA (31-150), His,Avitag (Cat. No. BTA-H82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human HVEM, Mouse IgG2a Fc Tag (Cat. No. HVM-H5257) with a linear range of 0.1-8 ng/mL (Routinely tested).

## Background

Herpesvirus entry mediator (HVEM) is also known as TNFRSF14, TR2 (TNF receptorlike molecule) and ATAR (another TRAF associated receptor), is a type I membrane protein belonging to the TNF/NGF receptor superfamily. HVEM expression has been detected in peripheral blood T cells, B cells, monocytes and in various tissues enriched in lymphoid cells. The extracellular domain of HVEM has been shown to interact directly with the herpes simplex virus envelope glycoprotein D (gD). Two TNF superfamily ligands, including the secreted TNFβ (lymphotoxin α) and the membrane protein LIGHT (lymphotoxins, exhibits inducible expression, and competes with HSV glycoprotein D for HVEM, a receptor expressed by T lymphocytes), have been shown to be the cellular ligands for HVEM. Besides HVEM, LIGHT can also interact with LTβR, the receptor for lymphotoxin αβ heterotrimer. The role of the HVEM LIGHT /LTβ receptor ligand pair in immune function and herpesvirus pathobiology remains to be elucidated.

## Clinical and Translational Updates

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