

**Synonym**

TIGIT, VSIG9, VSTM3

**Source**

Biotinylated Human TIGIT, Mouse IgG2a Fc,Avitag(TIT-H82F3) is expressed from human 293 cells (HEK293). It contains AA Met 22 - Pro 141 (Accession # [Q495A1-1](#)).

Predicted N-terminus: Met 22

**Molecular Characterization**

TIGIT(Met 22 - Pro 141) Q495A1-1	mFc(Glu 98 - Lys 330) P01863	Avi
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This protein carries a mouse IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 41.6 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% 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.*

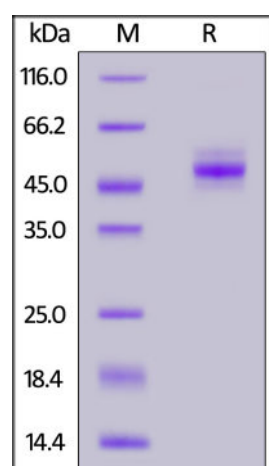
**Storage**

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

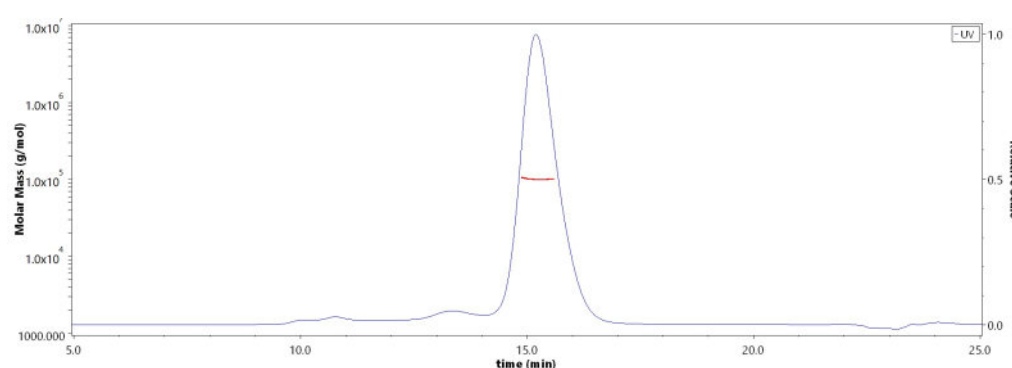
*Please avoid repeated freeze-thaw cycles.*

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.

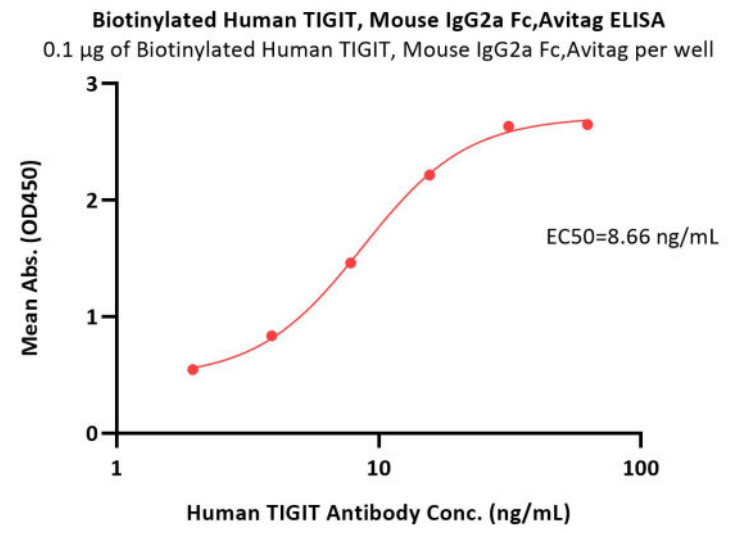
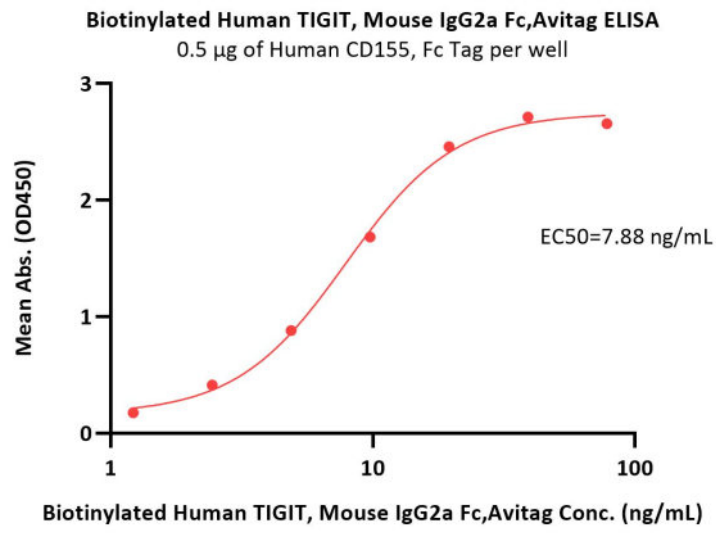
**SDS-PAGE**

Biotinylated Human TIGIT, Mouse IgG2a Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA****SEC-MALS**

The purity of Biotinylated Human TIGIT, Mouse IgG2a Fc,Avitag (Cat. No. TIT-H82F3) is more than 85% and the molecular weight of this protein is around 95-105 kDa verified by SEC-MALS.

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Immobilized Human CD155, Fc Tag (Cat. No. CD5-H5251) at 5 µg/mL (100 µL/well) can bind Biotinylated Human TIGIT, Mouse IgG2a Fc,Avitag (Cat. No. TIT-H82F3) with a linear range of 1-10 ng/mL (QC tested).

Immobilized Biotinylated Human TIGIT, Mouse IgG2a Fc,Avitag (Cat. No. TIT-H82F3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human TIGIT Antibody with a linear range of 2-16 ng/mL (Routinely tested).

### Background

T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3), which belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed at low levels on peripheral memory and regulatory CD4+ T-cells and NK cells and is up-regulated following activation of these cells (at protein level). TIGIT binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.

### Clinical and Translational Updates

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