



**Synonym**

HAVCR2,TIM3,TIMD3,FLJ14428,KIM3

**Source**

Human TIM-3, His Tag(TM3-H5229) is expressed from human 293 cells (HEK293). It contains AA Ser 22 - Arg 200 (Accession # [Q8TDQ0-1](#) ).

Predicted N-terminus: Ser 22

**Molecular Characterization**

TIM-3(Ser 22 - Arg 200)  
Q8TDQ0-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 21.8 kDa. The protein migrates as 44-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**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**

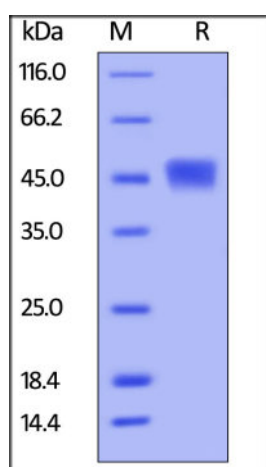
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

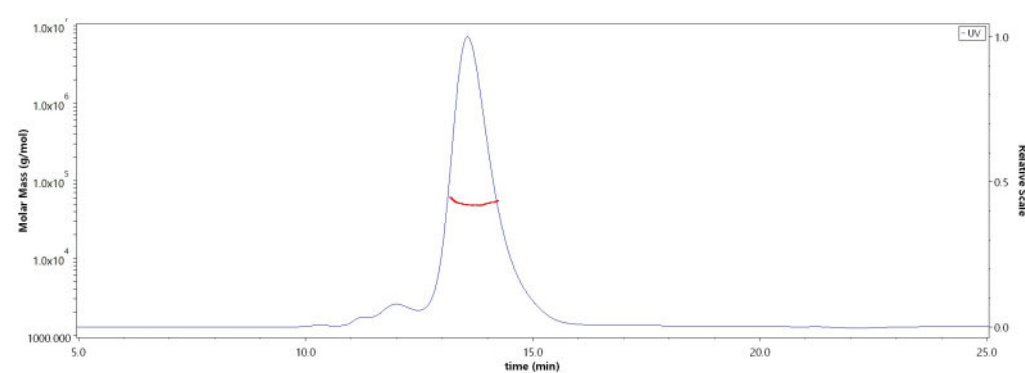
**SDS-PAGE**



Human TIM-3, His Tag 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**

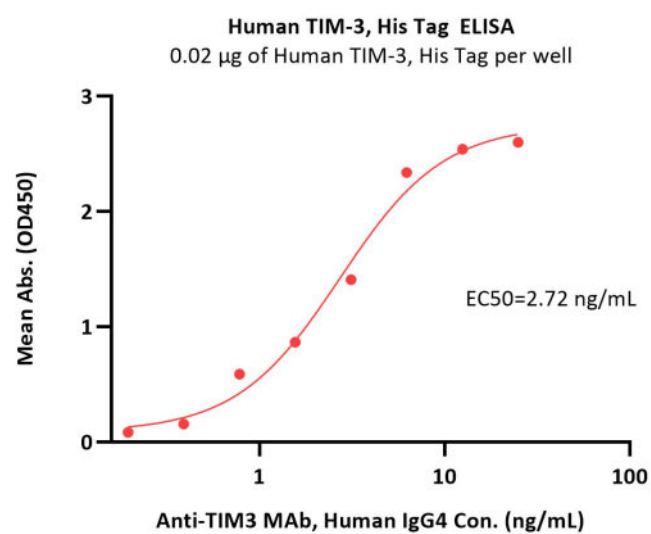


The purity of Human TIM-3, His Tag (Cat. No. TM3-H5229) is more than 90% and the molecular weight of this protein is around 35-50 kDa verified by SEC-MALS.

[Report](#)

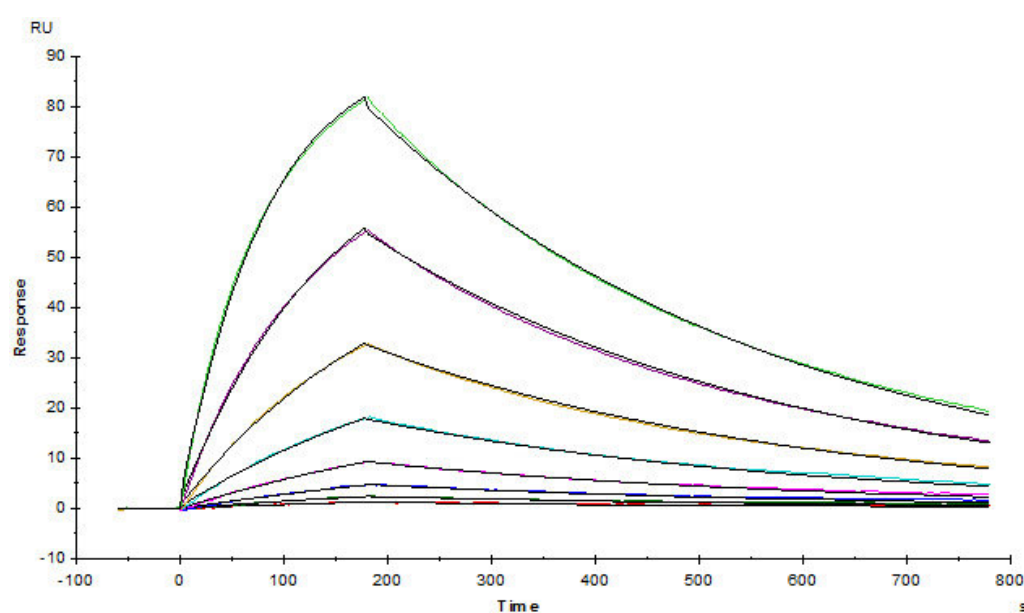
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Immobilized Human TIM-3, His Tag (Cat. No. TM3-H5229) at 0.2 µg/mL (100 µL/well) can bind Anti-TIM3 MAb, Human IgG4 with a linear range of 0.2-6 ng/mL (QC tested).

### Bioactivity-SPR



Anti-Human TIM-3 MAb (human IgG4) captured on CM5 chip via Anti-Human IgG Fc antibodies surface, can bind Human TIM-3, His Tag (Cat. No. TM3-H5229) with an affinity constant of 9.7 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

### Background

Hepatitis A virus cellular receptor 2 is also known as HAVCR2, FLJ14428, KIM3, TIM3, TIMD3, is a member of the TIM family of immune regulating molecules with one Ig-like V-type domain and a Ser/Thr-rich mucin stalk. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells and their associated cytokines are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. The 2 types of cells also cross-regulate the functions of the other. HAVCR2 is a Th1-specific cell surface protein that regulates macrophage activation and enhances the severity of experimental autoimmune encephalomyelitis in mice. HAVCR2 regulates macrophage activation. Inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. May be also involved in T-cell homing. Dysregulation of the HAVCR2-galectin-9 pathway could underlie chronic autoimmune disease states in human, such as multiple sclerosis.

### Clinical and Translational Updates

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# Human TIM-3 / HAVCR2 Protein, His Tag (MALS verified)

Catalog # TM3-H5229



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

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