

Recombinant Mouse TIM-3/HAVCR2/CD366 Protein

Catalog No.: RP01152 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	171285	Q8VIM0

Tags

C-His

Synonyms

Tim; TIM-; Tim3; Timd; TIM-3;
Timd3;HAVCR2

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
19.96 kDa	38-55 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

HAVCR2 also known as TIM3 (T cell immunoglobulin and mucin domain-3) belongs to the immunoglobulin superfamily, and TIM family of proteins. 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 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. This protein is a Th1-specific cell surface protein that regulates macrophage activation, and inhibits Th1-mediated auto- and alloimmune responses, and promotes immunological tolerance. Its binding to Galectin-9 induces a range of immunosuppressive functions which enhance immune tolerance and inhibit anti-tumor immunity.

Basic Information

Description

Recombinant Mouse TIM-3/HAVCR2/CD366 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg20-Arg191) of mouse TIM-3 (Accession #NP_599011.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse TIM-3 at 2 μg/mL (100 μL/well) can bind Anti-TIM-3 antibody with a linear range of 0.5-1.5 μg/mL.

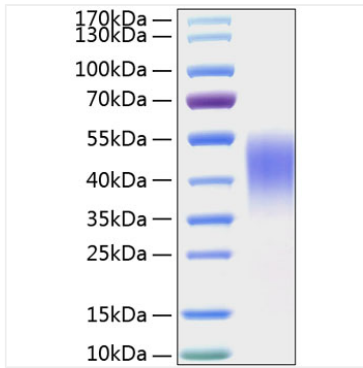
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

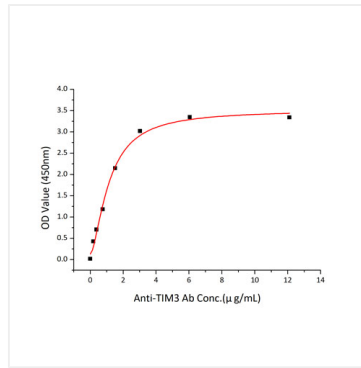
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse TIM-3/HAVCR2/CD366 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-55 kDa.



Immobilized Recombinant Mouse TIM-3 at 2 µg/mL (100 µL/well) can bind Anti-TIM-3 antibody with a linear range of 0.5-1.5 µg/mL.