Recombinant Human TIM-3/HAVCR2/CD366 Protein

Catalog No.: RP00234

Sequence Information

Species
Human

Gene ID
84868

Swiss Prot
Q8TDQ0

Tags
C-hFc&His

Synonyms
HAVCR2,CD366,HAVcr-2,KIM-3, TIM3,TIMD-3,TIMD3,Tim-3, CD366, KIM-3, SPTCL, TIMD3, Tim-3, TIMD-3, HAVcr-2

Product Information

Source
HEK293 cells

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
46.66 kDa

Observed MW
65-75 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

HAVCR2 also known as TIM3(T cell immunoglobulin and mucin domain-3), is a 60 kDa member of the TIM family of immune regulating molecules. TIMs are type I transmembrane glycoproteins with one Ig-like V-type domain and a Ser /Thr-rich mucin stalk region. Mature human TIM-3 consists of a 181 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 78 aa cytoplasmic tail. An alternatively spliced isoform is truncated within the mucin-like stalk.TIM-3 is up-regulated on several populations of activated myeloid cells (macrophage, monocyte, dendritic cell, microglia, mast cell) and T cells (Th1, CD8+, NK, Treg). Its binding to Galectin-9 induces a range of immunosuppressive functions which enhance immune tolerance and inhibit anti-tumor immunity . TIM-3 ligation attenuates CD8+ and Th1 cell responses and promotes the activity of Treg and myeloid derived suppressor cells. In addition, dendritic cell-expressed TIM-3 dampens inflammation by enabling the phagocytosis of apoptotic cells and the cross-presentation of apoptotic cell antigens. It also binds the alarmin HMGB1, thereby preventing the activation of TLRs in response to released tumor cell DNA. TIM-3 interactions with Galectin-9 can alternatively trigger immune stimulatory effects, such as the coactivation of NK cell cytotoxicity.

Basic Information

Description
Recombinant Human TIM-3/HAVCR2/CD366 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser22-Arg200) of human TIM-3 (Accession #NP_116171.3) fused with an Fc, 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Galectin9 at 2 μg/mL can bind recombinant human HAVCR2 with a linear range of 0.3-5 μg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

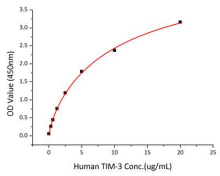
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

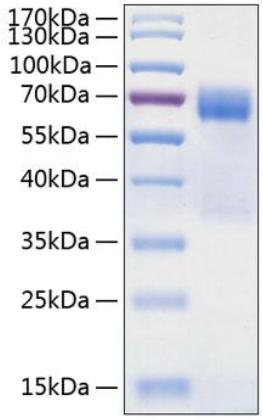
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Validation Data



Immobilized Recombinant Human Galectin9 at 2 μg/mL can bind recombinant human HAVCR2 with a linear range of 0.3-5 μg/mL.



Recombinant Human TIM-3/HAVCR2/CD366 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.