Recombinant Mouse Havcr2 Protein, Fc-tagged

Cat. No. Havcr2-11156M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse TIM-3, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Arg 20 - Arg 191 (Accession # AAL65156.1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Arg 20
Species	Mouse
Source	HEK293
ProteinLength	20-191 aa
Description	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

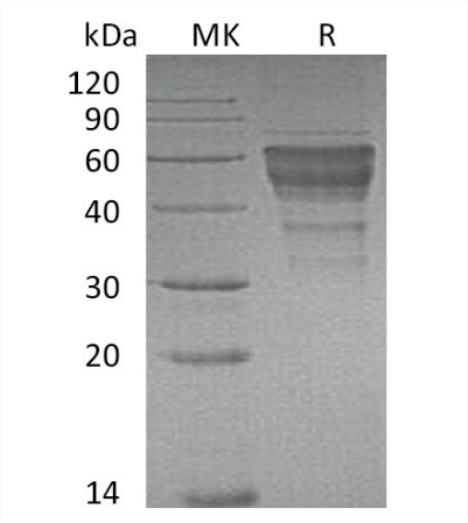
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	autoimmune disease states in human, such as multiple sclerosis.
Form	Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 45.8 kDa. The protein migrates as 60-67 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Havcr2 hepatitis A virus cellular receptor 2 [Mus musculus (house mouse)]
Official Symbol	Havcr2
Synonyms	Havcr2; hepatitis A virus cellular receptor 2; Tim3; TIM-3; Timd3; hepatitis A virus cellular receptor 2 homolog; HAVcr-2; T-cell immunoglobulin and mucin domain containing 3; T-cell immunoglobulin and mucin domain-containing protein 3; T-cell immunoglobulin mucin receptor 3; T-cell membrane protein 3; TIMD-3

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Gene ID	171285
mRNA Refseq	NM_134250
Protein Refseq	NP_599011
UniProt ID	Q8VIM0
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