

Active Recombinant Monkey HAVCR2 Protein, Fc-tagged

Cat. No. HAVCR2-11155M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus TIM-3, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ser 22 - Arg 201 (Accession # EHH54703.1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Ser 22
Species	Monkey
Source	HEK293
ProteinLength	22- 201 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.
Bio-activity	Immobilized Cynomolgus TIM-3, Fc Tag at 2 µg/mL (100 µL/well) can bind Anti-TIM3 Mab, Human IgG4 with a linear range of 0.5-8 ng/mL.
Molecular Mass	The protein has a calculated MW of 45.8 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>85% 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 [Macaca mulatta (Rhesus monkey)]
Official Symbol	HAVCR2
Synonyms	Havcr2; hepatitis A virus cellular receptor 2; Tim3; TIM-3; Timd3; hepatitis A virus

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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

Gene ID 714891

mRNA Refseq XM_015141316

Protein Refseq XP_014996802

UniProt ID F7GB92

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