

Active Recombinant Human HAVCR1 Protein, His-Tagged

Cat. No. HAVCR1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Mouse myeloma cell line, NS0-derived human TIM-1/KIM-1/HAOCR protein Ser21-Thr288, with a C-terminal 6-His tag
Species	Human
Source	NS0
ProteinLength	21-288 a.a.
Description	The protein encoded by this gene is a membrane receptor for both human hepatitis A virus (HHAOC) and TIMD4. The encoded protein may be involved in the moderation of asthma and allergic diseases. The reference genome represents an allele that retains a MTTVP amino acid segment that confers protection against atopy in HHAOC seropositive individuals. The protein is a receptor for multiple other viruses, including Ebola virus, Marburg virus, Dengue virus, and Zika virus and is a possible entry factor for SARS-CoV-2 and other coronaviruses.
Form	Lyophilized
Bio-activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells. Human T lymphocytes cultured for 72 hours with PHA were incubated for an additional 3 days in 96 well plates coated with 500 ng/mL anti-CD3 and Recombinant Human TIM-1/KIM-1/HAOCR. The ED50 for this effect is 0.2-0.8 µg/mL. Optimal dilutions should be determined by each laboratory for each application.

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Molecular Mass	29.6 kDa
N-terminal Sequence Analysis	Ser21
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	HAVCR1 hepatitis A virus cellular receptor 1 [Homo sapiens (human)]
Official Symbol	HAVCR
Synonyms	CD365; HAVCR1; HAVCR-1; HAVCRT cell immunoglobulin domain and mucin domain protein 1; hepatitis A virus cellular receptor 1; Kidney injury molecule 1; KIM1; KIM-1; T-cell immunoglobulin and mucin domain-containing protein 1; TIM1; TIM-1; TIM-

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1TIM; TIM1TIMD-1; TIMD1T-cell membrane protein 1

Gene ID

26762

mRNA Refseq

NM_001173393.3

Protein Refseq

NP_001166864.1

MIM

606518

UniProt ID

Q96D42

Bioactivity

Recombinant Human TIM-1/KIM-1/HAVCR inhibits anti-CD3-induced proliferation of stimulated human T cells. Human T lymphocytes cultured for 72 hours with PHA were incubated for an additional 3 days in 96 well plates coated with 500 ng/mL anti-CD3 and Recombinant Human TIM-1/KIM-1/HAVCR. The ED50 for this effect is 0.2-0.8 µg/mL.

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