

Human TIM-1/KIM-1/HAVCR, C-Flag Tag Protein

HA211313



Product name:	Human TIM-1/KIM-1/HAVCR, C-Flag Tag
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human TIM-1/KIM-1/HAVCR protein (Q96D42) (Ser 21-Gly 295) was expressed with a Flag tag at the C-terminus.

Background:	Hepatitis A virus cellular receptor 1 (HAVcr-1) also known as T-cell immunoglobulin and mucin domain 1 (TIM-1) is a protein that in humans is encoded by the HAVCR1 gene. It is also known as KIM-1 Kidney Injury Molecule -1, which is a type 1 transmembrane protein the most highly upregulated in injured kidneys by various types of insults. Its upregulation during renal injury has been found in the kidneys of the vertebrates such as Zebrafish and humans. The hepatitis A virus cellular receptor 1 (HAVCR1/TIM-1), is a member of the TIM (T cell transmembrane, immunoglobulin, and mucin) gene family, which plays critical roles in regulating immune cell activity especially regarding the host response to viral infection. TIM-1 is also involved in allergic response, asthma, and transplant tolerance. The TIM gene family was first cloned from the mouse model of asthma in 2001. Subsequently, it was demonstrated that members of the TIM gene family including TIM-1 participate in host immune response. The mouse TIM gene family contains eight members (TIM-1-8) while only three TIM genes (TIM-1, TIM-3, and TIM-4) have been identified in humans.
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Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	TIM-1/KIM-1/HAVCR (21-295)
Source:	HEK293
Accession:	Q96D42
Predicted molecular mass:	31.1 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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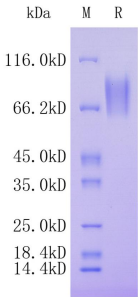


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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