

TIM-1/KIM-1/HAVCR Protein, Rat (HEK293, His)

Cat. No.:	HY-P73602
Synonyms:	Hepatitis A virus cellular receptor 1; HAVcr-1; KIM-1; TIM-1; CD365; HAVCR1
Species:	Rat
Source:	HEK293
Accession:	O54947/NP_775172.1 (S18-V238)
Gene ID:	286934
Molecular Weight:	Approximately 55-65 kDa

PROPERTIES

AA Sequence	<pre> S V D S Y E V V K G V V G H P V T I P C T Y S T R G G I T T T C W G R G Q C P Y S S C Q N I L I W T N G Y Q V T Y R S S G R Y N I K G R I S E G D V S L T I E N S V D S D S G L Y C C R V E I P G W F N D Q K M T F S L E V K P E I P T S P P T R P T T T R P T T T R P T T I S T R S T H V P T S T R V S T S T P T P E Q T Q T H K P E I T T F Y A H E T T A E V T E T P S Y T P A D W N G T V T S S E E A W N N H T V R I P L R K P Q R N P T K G F Y V </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	TIM-1/KIM-1/HAVCR Protein serves as a phosphatidylserine receptor with a crucial functional role in the homeostasis of regulatory B-cells, influencing their generation, expansion, and suppressor functions. Additionally, as a ligand for P-selectin/SELPLG, it assumes a specialized role in the trafficking of activated T-cells during inflammatory responses, particularly controlling T-cell accumulation in the inflamed central nervous system and influencing the induction of autoimmune disease. TIM-1/KIM-1/HAVCR also regulates the expression of various anti-inflammatory cytokines and co-inhibitory ligands, including IL10, acting as a modulator of T-cell proliferation. Furthermore, it may play a role in kidney
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injury and repair. Interactions with STAM and SELPLG contribute to the multifaceted regulatory functions of TIM-1/KIM-1/HAVCR Protein.

Caution: Product has not been fully validated for medical applications. For research use only.

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