

## Recombinant Rat KIM-1 Protein(His Tag)

**Catalog Number:** PDMR100039

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

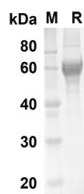
### Description

<b>Species</b>	Rat
<b>Source</b>	Mammalian-derived Rat KIM-1 proteins Tyr22-Gly235, with an C-terminal His
<b>Calculated MW</b>	23.4 kDa
<b>Observed MW</b>	55-65 kDa
<b>Accession</b>	O54947
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 90% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

### Data



SDS-PAGE analysis of Rat KIM-1 proteins, 2 µg/lane of Recombinant Rat KIM-1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 23.4 KD

### Background

### For Research Use Only

Hepatitis A virus cellular receptor 1 is also known asHAVCR1, HAVCR, KIM1, TIM, TIM1, TIMD1, is widely expressed with highest levels in kidney and testis. The protein encoded by HAVCR1 gene is a membrane receptor for both human hepatitis A virus (HHA V) 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 HHA V seropositive individuals. Three transcript variants encoding the same protein have been found for this gene. HAVCR1 may play a role in T-helper cell development, the regulation of asthma and allergic diseases and in kidney injury and repair. In case of human hepatitis A virus (HHA V) infection, functions as a cell-surface receptor for the virus.