

# Human CellExp™ HAVCR1 / KIM1 / TIM1, human recombinant

**CATALOG #:** 7494-10 10 µg  
7494-50 50 µg

**ALTERNATE NAMES:** HAVCR1, HAVCR, HAVCR-1, KIM-1, KIM1, TIM, TIM-1, TIM1, TIMD-1, TIMD1, Hepatitis A virus cellular receptor 1

**SOURCE:** HEK 293 cells (Ser 21 – Gly 290)

**PURITY:** > 90% by SDS-PAGE gel

**MOL. WEIGHT:** This protein contains a poly histidine tag at C-terminus and has a calculated MW of 31.3 kDa after removal of signal peptide. In DTT-reduced SDS-PAGE, rhHAVCR1 protein migrates as 80-100 kDa poly peptide due to high glycosylation.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

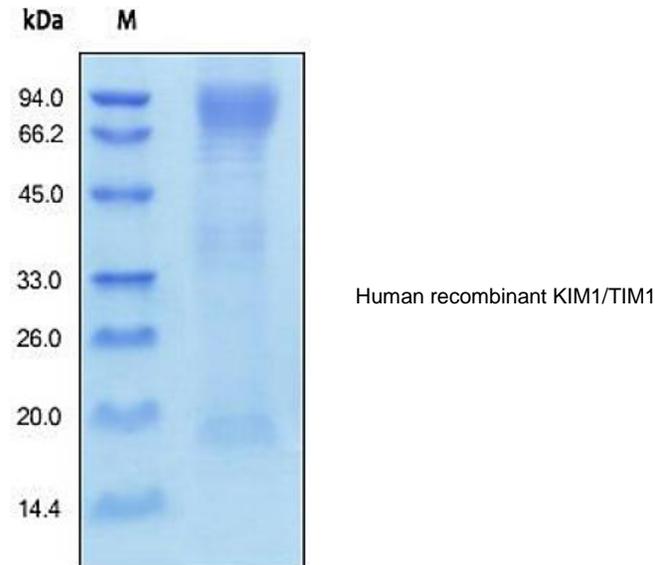
**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in 50 mM Tris, 100 mM glycine, pH 7.0. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**DESCRIPTION:** Hepatitis A virus cellular receptor 1 also known as HAVCR1, 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 (HHAV) 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 HHAV 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 (HHAV) infection, functions as a cell-surface receptor for the virus.

**BIOLOGICAL 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 rhTIM1. The ED<sub>50</sub> for this effect is typically 0.15-1.0 µg/ml.



#### RELATED PRODUCTS:

- Human CellExp™ KIM3 /HAVCR2, human recombinant (**Cat. No. 7495-10, -50**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**