



Recombinant Protein Technical Manual
Recombinant Rat TIM1/HACVR1 Protein (His & Fc
Tag)
RPES1597

Product Data:

Product SKU: RPES1597

Size: 20µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: NP_775172.1

Protein Information:

Molecular Mass: 52.6 kDa

AP Molecular Mass: 9000 kDa

Tag: C-His & N-Fc

Bio-activity:

Purity: > 93 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: KIM;Kim1;Havcr1

Immunogen Information:

Sequence: Ser 18-Val 238

Background:

HAV cellular receptor 1 (HAVCR1), also known as Kidney injury molecule 1 (KIM) and T cell immunoglobulin mucin 1 (TIM), is a type II integral membrane glycoprotein. KIM protein is widely expressed with highest levels in kidney and testis. It has been shown to play a major role as a human susceptibility gene for asthma, allergy and autoimmunity. IgA1lambda is a specific ligand of KIM protein and that their association has a synergistic effect in virus-receptor interactions. KIM involves in the pathogenesis of acute kidney injury. It had been confirmed that KIM is a human urinary renal dysfunction biomarker. Moreover, KIM protein is a novel regulatory molecule of flow-induced calcium signaling.