

For Research Use Only

Recombinant Rat KIM-1/HAVCR1 protein (His Tag)



Catalog Number: Eg0597

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Rat KIM-1 protein Ser18-Val238 (Accession# O54947) with a His tag at the C-terminus.

GeneID:

286934

Accession:

O54947

Predicted Molecular Mass:

25.4 kDa

SDS-PAGE:

50-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Kidney injury molecule 1 (KIM-1), also known as Hepatitis A virus cellular receptor 1 (HAVCR1), CD365, or T-cell immunoglobulin and mucin domain 1 (TIM-1), is a class I integral membrane glycoprotein, with an ectodomain containing Ig-like domain and a mucin domain. KIM-1 acts as a membrane receptor for hepatitis A virus (HAV). KIM-1 provides a costimulatory signal for T cell activation and inhibits the development of peripheral tolerance. KIM-1 may be involved in the regulation of asthma and allergic diseases. It has been reported that KIM-1 is shed into urine after acute kidney damage and is a marker of renal tubular injury.

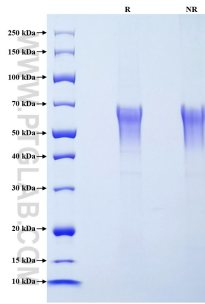
References

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2. D Feigelstock, et al. (1998) J Virol. 72(8):6621-8.
3. Jennifer J McIntire, et al. (2003) Nature. 425(6958):576.
4. Takaharu Ichimura, et al. (2003) Am J Physiol Renal Physiol. 286(3):F552-63.
5. Anjali J de Souza, et al. (2005) Proc Natl Acad Sci U S A. 102(47):17113-8.
6. Sarah E Umetsu, et al. (2005) Nat Immunol. 6(5):447-54.

Synonyms

HAVCR1, KIM-1, TIM-1, CD365, KIM 1

Selected Validation Data



Purity of Recombinant Rat KIM-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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