

For Research Use Only

# Recombinant Mouse Uromodulin protein (mFc Tag)



Catalog Number: Eg3885

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
mFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Mouse Uromodulin protein Asn25-Ala618 (Accession# Q91X17) with a mouse IgG Fc tag at the C-terminus.

**GeneID:**

22242

**Accession:**

Q91X17

**Predicted Molecular Mass:**

92.0 kDa

**SDS-PAGE:**

110-130 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm 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

Uromodulin, also known as THP (Tamm-Horsfall glycoprotein), is the most abundant protein excreted in the urine under physiological conditions. Uromodulin is synthesized by the kidney and localizes in cells lining the ascending limb of Henle and the distal convoluted tubule. Uromodulin has been linked to water/electrolyte balance and to kidney innate immunity. Also, studies in knockout mice demonstrated that it has a protective role against urinary tract infections and renal stone formation. Mutations in the gene encoding uromodulin lead to rare autosomal dominant diseases, collectively referred to as uromodulin-associated kidney diseases.

## References

1. Luca Rampoldi. et al. (2011) *Kidney Int.* 80(4):338-347.
2. Muchmore AV. et al. (1985) *Science.* 229: 479-481.
3. Easton RL. et al. (2000) *J Biol Chem.* 275: 21928-21938.
4. Jennings P. et al. (2007) *J Am Soc Nephrol.* 18: 264-273.

## Synonyms

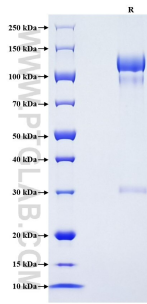
Tamm-Horsfall urinary glycoprotein, THP, Umod, Uromodulin, secreted form

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

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## Selected Validation Data



Purity of Recombinant Mouse Uromodulin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.