

Recombinant Mouse Umod protein (rFc Tag)

Catalog Number: Eg2748

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <1.0 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Mouse Umod protein Asn25-Ala618 (Accession# Q91X17) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 22242</p> <p>Accession: Q91X17</p> <p>Predicted Molecular Mass: 91.0 kDa</p> <p>SDS-PAGE:</p> <p>Formulation: Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Uromodulin (Tamm-Horsfall protein) is the most abundant urinary protein in physiological conditions, and it is exclusively produced by epithelial cells lining the kidney tubule. It plays a crucial role in renal physiology, including regulation of magnesium and calcium homeostasis, protection against urinary tract infections, and modulation of renal inflammation. Uromodulin also acts as a biomarker for kidney function, with urinary levels correlating with renal health and disease progression. Genetic variants in the UMOD gene are associated with chronic kidney disease, kidney stones, and hypertension, highlighting its importance in renal pathophysiology. Additionally, Uromodulin has been implicated in the regulation of renal cytokines and the protection against ischemic injury.</p>		
References	<ol style="list-style-type: none">1. Wolf, Matthias T F et al. Current opinion in nephrology and hypertension vol. 28,5 (2019): 481-489.2. Kipp, Anne, and Eric Olinger. Clinical journal of the American Society of Nephrology: CJASN vol. 16,1 (2020): 150-13. Schaeffer, Céline et al. Annual review of physiology vol. 83 (2021): 477-501.4. Mary, Sheon et al. Hypertension (Dallas, Tex. : 1979) vol. 79,11 (2022): 2419-2429.5. Karagiannidis, Artemios G et al. Nephrology, dialysis, transplantation: official publication of the European Dialys		
Synonyms			

Selected Validation Data

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

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