# Recombinant Mouse Umod Protein, His/GST-tagged

**Cat. No.** Umod-601M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse Umod(Glu335~Ser590) fused with His/GST tag at N-terminal was expressed in E. coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | Glu335~Ser590 |
| **Description** | This gene encodes a glycoprotein that is the most abundant protein in mammalian urine under physiological conditions. It is synthesized in the kidney as a glycosyl-phosphatidylinositol anchored protein and released into urine as a soluble form by proteolytic cleavage. It is thought to regulate water and salt balance in the thick ascending limb of Henle and to protect against urinary tract infection and calcium oxalate crystal formation. In mouse deficiency of this gene is associated with increased susceptibility to bacterial infections and formation of calcium crystals in kidneys. Alternative splicing results in multiple transcript variants. |
| **Form** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Molecular Mass** | 58.72kDa |
| **Endotoxin** | <1.0EU per 1μg (determined by the LAL method) |
| **Purity** | > 92% |

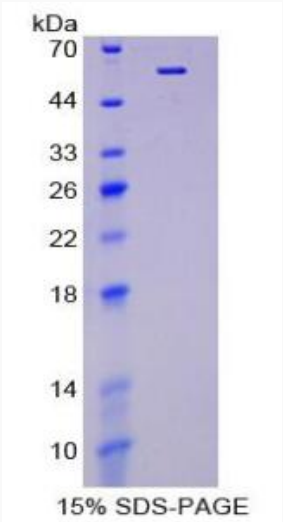
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| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Reconstitution** | Reconstitute in PBS or others. |

## GENE INFORMATION

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| **Gene Name** | Umod uromodulin [ Mus musculus ] |
| **Official Symbol** | Umod |
| **Synonyms** | UMOD; uromodulin; THP; Tamm-Horsfall protein; Tamm-Horsfall glycoprotein; tamm-Horsfall urinary glycoprotein; urehr4; uromucoid; MGC14034; |
| **Gene ID** | 22242 |
| **mRNA Refseq** | NM_009470 |
| **Protein Refseq** | NP_033496 |
| **UniProt ID** | Q91X17 |

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