

Native Human Uromodulin Protein

Cat. No. UMOD-1881H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Uromodulin was purified from Human Urine.
Species	Human
Source	Human Urine
Description	Uromodulin is the most abundant protein in normal urine. Its secretion in urine follows proteolytic cleavage of the ectodomain of its glycosyl phosphatidylinositol-anchored counterpart that is situated on the luminal cell surface of the loop of Henle. Uromodulin plays a role as a constitutive inhibitor of calcium crystallization in renal fluids. Secretion of uromodulin in urine provides protection against urinary tract infections caused by uropathogenic bacteria. Defects in Uromodulin expression are associated with the autosomal dominant renal disorders medullary cystic kidney disease-2 (MCKD2) and familial juvenile hyperuricemic nephropathy (FJHN). These disorders are characterized by juvenile onset of hyperuricemia, gout, and progressive renal failure. While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. UMOD is involved in regulating the circulating activity of cytokines as it binds to il-1, il-2 and tnf with high affinity.
Physical Appearance	Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	The UMOD protein was lyophilized from 0.4m filtered solution at a concentration of 0.6mg/mL containing water.

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Stability

Lyophilized UMOD although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UMOD should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

UMOD uromodulin [Homo sapiens]

Synonyms

Uromodulin; THP; FJHN; HNFJ; THGP; HNFJ1; MCKD2; ADMCKD2; UMOD; uromucoid; Tamm-Horsfall glycoprotein; tamm-Horsfall urinary glycoprotein; uromodulin (uromucoid, Tamm-Horsfall glycoprotein); Tamm-Horsfall urinary glycoprotein

Gene ID

7369

mRNA Refseq

NM_001008389.1

Protein Refseq

NP_001008390.1

MIM

191845

UniProt ID

P07911

Chromosome Location

16p12.3

Function

calcium ion binding

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