
Product Data Sheet

Product Name: UMOD Human
 Cat. No.: GP22381
 Batch No.: 1

Product Data

Purity	>98%	Source	Human Urine.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tamm-Horsfall urinary glycoprotein; THP; FJHN; HNFJ; THGP; MCKD2; ADMCKD2; UMOD; Uromodulin.		
Amino Acid Sequence	<p>DTSEARWCSE CHSNATCTED EAVTTCTCQE GFTGDGLTCV DLDECAIPGA HNCANSSSCV NTPGSFSCVC PEGFRLSPGL GCTDVDECAE PGLSHCHALA TCNVVGSYL CVC PAGYRGD GWHCECSPGS CGPGLDCVPE GDALVCADPC QAHRTLDEYW RSTEYGEGYA CDTDLRGWYR FVGQGGARMA ETCVPVLRN TAAPMWLNGT HPSSDEGIVS RKACAHWSGH CCLWDASVQV KACAGGYVYV NLTAPPECHL AYCTDPSSVE GTCEECSIDE DCKSNNGRWH CQCKQDFNIT DISLLEHRLE CGANDMKVSL GKCQLKSLGF DKVFMYSLS RSCSGFNDRDN RDWVSVVTPA RDGPCGTVLT RNETHATYSN TLYLADEIII RDLNIKINFA CSYPLDMKVS LKTALQPMVS ALNIRVGGTG MFTVRMALFQ TPSYTQPYQG SSVTLSTEAF LYVGTMLDGG DLSRFALLMT NCYATPSSNA TDPLKYFIIQ DRCPHTRDST IQVVENGESS QGRFSVQMFR FAGNYDLVYL HCEVYLCDTM NEKCKPTCSG TRFRSGSVID QSRVLNLGPI TRKGVQATVS.</p>		
Solubility	Add deionized water to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	The UMOD protein was lyophilized from 0.4µm filtered solution at a concentration of 0.6mg/ml containing deionized water.		

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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 nature 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.

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.

Background

Uromodulin Human Native protein produced from Human Urine, is a glycosylated polypeptide chain containing 590 amino acids, having a total Mw of 64.25 kDa (excluding glycosylation).

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