

32-2912: UMOD Native Protein

Alternative Name : Tamm-Horsfall urinary glycoprotein, THP, FJHN, HNFJ, THGP, MCKD2, ADMCKD2, UMOD, Uromodulin.

Description

Source : Human Urine. 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). 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 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.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The UMOD protein was lyophilized from 0.4µm filtered solution at a concentration of 0.6mg/ml containing deionized water.
Storage condition :	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.
Amino Acid :	DTSEARWCSE CHSNATCTED EAVTTCTCQE GFTGDGLTCV DLDECAIPGA HNCSANSSCV NTPGSFSCVC PEGFRLSPGL GCTDVDECAE PGLSHCHALA TCNVVVGSYL CVCPAGYRGD GWHCECSPGS CGPGLDCVPE GDALVCADPC QAHRTLDEYW RSTEYGEGBA CDTDLRGWYR FVGQGGARMA ETCVPVLRN TAAPMWLNGT HPSSDEGIVS RKACAHWSGH CCLWDASVQV KACAGGYVYV NLTAPPECHL AYCTDPSSVE GTCEECSIDE DCKSNNGRWH CQCKQDFNIT DISLLEHRLE CGANDMKVSL GKCQLKSLGF DKVFMVLSDS RCGSFNDRDN RDWVSVVTPA RDGPGCTVLT RNETHATYSN TLYLADEIII RDLNIKINFA CSYPLDMKVS LKTALQPMVS ALNIRVGGTG MFTVRMALFQ TPSYTQPYQG SSVTLSTEAF LYVGTMLDGG DLSRFALLMT NCYATPSSNA TDPLKYFIIQ DRCPHTRDST IQVVENGESS QGRFSVQMFR FAGNYDLVYL HCEVYLCDTM NEKCKPTCSG TRFRSGSVID QSRVLNLGPI TRKGVQATVS.

Application Note

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.

