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32-13850: Recombinant Human Tamm Horsfall Glycoprotein

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

Description

Physical Appearence: Filtered White lyophilized (freeze-dried) powder.

Description: Uromodulin (Tamm–Horsfall protein) is produced mainly by cells in the kidney's thick ascending limb and is the most abundant protein in normal urine.

Uromodulin takes part in salt and water regulation, helps prevent urinary tract infections and kidney stones, and influences inflammation and immune activity in the kidney.
Reduced Uromodulin levels is associated with chronic kidney disease.
UMOD mutations causes unproper protein folding and thus transported incorrectly, resulting in its accumulation inside kidney tubular cells that damages the tubules and cause kidney disease (ADTKD-UMOD), associated with high uric acid, gout, and progressive kidney failure.

Uromodulin Human Recombinant protein produced from HEK Cells, is a polypeptide chain containing 595 amino acids (25-613 a.a.) and having a total Mw of 65 kDa. Uromodulin is expressed with a 6 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Product Info

Amount :	10 µg / 2 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE analysis
Content :	Formulation: The UMOD protein was lyophilized from 0.4µm filtered solution containing 50mM NaCl, 0.02M TRIS, pH 7.5. 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.
Storage condition :	Lyophilized UMOD although stable at room temperature for 3 weeks, should be stored at -18C. Upon reconstitution UMOD should be stored at 4C between 2-7 days and for future use below -18C. 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 TCVNVVGSYL CVCPAGYRGD GWHCECSPGS CGPGLDCVPE GDALVCADPC QAHRTLDEYW RSTEYGEGYA CDTDLRGWYR FVGQGGARMA ETCVPVLRCN TAAPMWLNGT HPSSDEGIVS RKACAHWSGH CCLWDASVQV KACAGGYYVY NLTAPPECHL AYCTDPSSVE GTCEECSIDE DCKSNNGRWH CQCKQDFNIT DISLLEHRLE CGANDMKVSL GKCQLKSLGF DKVFMYLSDS RCSGFNDRDN RDWVSVVTPA RDGPCGTVLT RNETHATYSN TLYLADEIII RDLNIKINFA CSYPLDMKVS LKTALQPMVS ALNIRVGGTG MFTVRMALFQ TPSYTQPYQG SSVTLSTEAF LYVGTMLDGG DLSRFALLMT NCYATPSSNA TDPLKYFIIQ DRCPHTRDST IQVVENGESS QGRFSVQMFR FAGNYDLVYL HCEVYLCDTM NEKCKPTCSG TRFRSGSVID QSRVLNLGPI

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TRKGVQATVH HHHHH

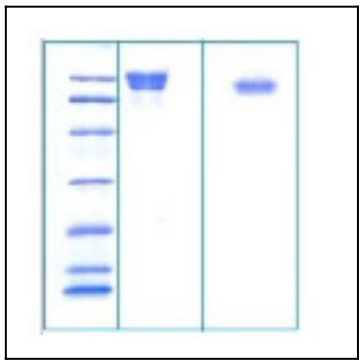

Fig 1: SDS-PAGE

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