

Recombinant Full Length Human UMOD Protein, C-Flag-tagged

Cat. No. UMOD-1339HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UMOD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is the most abundant protein in mammalian urine under physiological conditions. Its excretion 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. This protein may act as a constitutive inhibitor of calcium crystallization in renal fluids. Excretion of this protein in urine may provide defense against urinary tract infections caused by uropathogenic bacteria. Defects in this gene are associated with the renal disorders medullary cystic kidney disease-2 (MCKD2), glomerulocystic kidney disease with hyperuricemia and isosthenuria (GCKDHI), and familial juvenile hyperuricemic nephropathy (FJHN). Alternative splicing of this gene results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	67.1 kDa
AA Sequence	MGQPSLTWMLMVVASWFITTAATDTSEARWCSECHSNATCTEDEAVTTCTCQEG FTGDGLTCVDLDECA IPGAHNCSANSSCVNTPGSFSCVCPEGFRLSPGLGCTDVD

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ECAEPGLSHCHALATCVNVVGSYLCVCPAG YRGDGVHCECSPGSCGPGGLDCVPE
 GDALVCADPCQAHRTLDEYWRSTEYGEYACDLDLRGWYRFVGGG ARMAETC
 VPVLRCNTAAPMWLNTHPSSDEGIVSRKACAHWSGHCCCLWDASVQVKACAGGY
 YVYNLTAPP ECHLAYCTDPSSVEGTCEECSIDEDCKSNNGRWHCQCKQDFNITDIS
 LLEHRLECGANDMKVSLGKCQLK SLGFDKVFMYLSDSRCSGFNDRDNRDWVSVV
 TPARDGPCGTVLTRNETHATYSNTLYLADEIIIIRDLNIK INFACSYPLDMKVSLKTALQ
 PMVSALNIRVGGTGMFTVRMALFQTPSYTQPYQGSSVTLSTEAFLYVGTM LDGGD
 LSRFALLMTNCYATPSSNATDPLKYFIIQDRCPHTRDSTIQVVENGESSQGRFSVQM
 FRFAGNYD LVYLVHCEVYLCDTMNEKCKPTCSGTRFRSGSVIDQSRVLNLGPITRKG
 VQATVSRAFSSLGLLKVWLPLL
 LSATLTTLTFQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Full Length Full L.

GENE INFORMATION

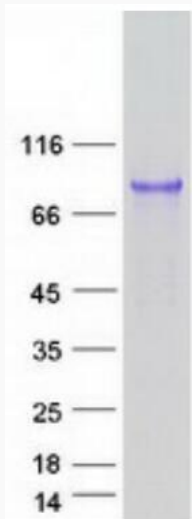
Gene Name UMOD uromodulin [Homo sapiens (human)]

Official Symbol UMOD

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Synonyms	THP; FJHN; HNFJ; THGP; HNFJ1; MCKD2; ADTKD1; ADMCKD2
Gene ID	7369
mRNA Refseq	NM_003361.4
Protein Refseq	NP_003352.2
MIM	191845
UniProt ID	P07911
 Coomassie blue staining of purified UMOD protein.	