

## Product datasheet for PH323787

### Uromuroid (UMOD) (NM\_003361) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	UMOD MS Standard C13 and N15-labeled recombinant protein (NP_003352)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223787
Predicted MW:	69.76 kDa
Protein Sequence:	>RC223787 representing NM_003361 Red=Cloning site Green=Tags(s)

MGQPSLTWMLMVVVASWFITTAATDTSEARWCSECHSNATCTEDEAVTTCQEGFTGDGLTCVDLDECA  
IPGAHNCSANSSCVNTPGSFSCVPEGFRLSPGLGCTDVECAEPGLSHCHALATCVNVVGSYLVCVPAG  
YRGDGHCECSPGSCGPLDCVPEGDALVCADPCQAHRTLDEYWRSTEYGEYACDIDLGRWYRFVQGQGG  
ARMAETCPVLCNTAAPMWLNTHPSSDEGIVSRKACAHWSGHCCLDASVQVKACAGGYVYNTAPP  
ECHLAYCTDPSSVEGTCEECSIDEDCKSNNGRWHCQCKQDFNITDISLLEHRLECGANDMKVSLGKCQLK  
SLGFDKVFMYLSDSRCSGFNDRDNRDWVSVVTPARDGPCGTVLTRNETHATYSNTLYLADEIIIRDNLNIK  
INFACSYPLDMKVSLKTALQPMVSALNIRVGGTGMFTVRMALFQTPSYTQPYQGSVTLSTEAFLYVGTM  
LDGGDLRFALLMTNCYATPSSNATDPLKYFIIQDRCPHTRDSTIQVVENGESSQGRFSVQMFRFAGNYD  
LVYLHCEVYLLCDTMNEKCKPTCSGTRFRSGSVIDQSRVNLNLPITRKGVQATVSRAFSSLGLLKVWLP  
LSATLTLTFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003352</a>
RefSeq Size:	2327

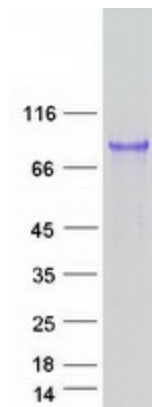


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RefSeq ORF:	1920
Synonyms:	ADMCKD2; ADTKD1; FJHN; HNFJ; HNFJ1; MCKD2; THGP; THP
Locus ID:	7369
UniProt ID:	<a href="#">P07911</a>
Cytogenetics:	16p12.3

**Summary:** 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. [provided by RefSeq, Jul 2013]

### Product images:



Coomassie blue staining of purified UMOD protein (Cat# [TP323787]). The protein was produced from HEK293T cells transfected with UMOD cDNA clone (Cat# [RC223787]) using MegaTran 2.0 (Cat# [TT210002]).