

Uromodulin/Umod Protein, Mouse, Recombinant (His)

General Information

Synonyms: Tamm-Horsfall urinary glycoprotein (THP);Umod;Uromodulin

Protein Construction: 25-588 aa

Species: Mouse

Expression Host: P. pastoris (Yeast)

Accession: Q91X17

Molecular Weight: 64.2 kDa (predicted)

AA Sequence: NSTEARRCSECHNNATCTVDGVVTTCSQGTGFTGDGLVCEDMDECATPWITHNCSNSSCVNTPGSFKCSCQD
GFRLTPELSCTDVDECSEQGLSNCHALATCVNTEGDYLCVCEGFTGDGWYCECSPGSCPEGLDCLPQGPDG
KLVCQDPCNTYETLLEYWRSTEYGVGYSCDAGLHGWRFTGQGGVMAETCVPVLCNTAAPMWLNGSHP
SSSEGIVSRACAHWSDQCCRWSTEIQVKACPGGFYIYNLTAPPECNLAYCTDPSSVEGTCEECDVDEDICISD
NGRWRCQCKQDSNITDVSQLEYRLECGANDIKMSLRKCQLQSLGFMNVFMYLNDRQCSGFSESDERDWMS
IVTPARNGPCGTVLRNETHATYSNTLYLANAIIIRDIIIRMFECYPLDMKVSLKTSLQPMVSALNISLGGTGK
FTVRMALFQSPTYTQPHQGPSVMLSTEAFLYVGTMLDGGDLRFVLLMTNCYATPSSNSTDPVKYFIIQDSCP
RTEDTTIQVTENGESSQARFSVQMFRAFAGNYDLVYLHCEVYLCSTSEQCKPTCSGTRF

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Functions in biogenesis and organization of the apical membrane of epithelial cells of the thick ascending limb of Henle's loop (TALH), where it promotes formation of complex filamentous gel-like structure that may play a role in the water barrier permeability. May serve as a receptor for binding and endocytosis of cytokines (IL-1, IL-2) and TNF. Facilitates neutrophil migration across renal epithelia.; In the urine, may contribute to colloid osmotic pressure, retards passage of positively charged electrolytes, prevents urinary tract infection and inhibits formation of liquid containing supersaturated salts and subsequent formation of salt crystals.

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