

Recombinant Mouse Umod Protein, His/GST-tagged

Cat. No. Umod-15M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Umod(Glu335~Ser590) fused with His/GST tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu335~Ser590
Description	Notum is an evolutionarily conserved 60 kDa secreted deacylase that regulates Wnt activity. It is tethered to the cell surface by binding to Glypican-like sulfated proteoglycans, and it functions as a Glypican-dependent Wnt inhibitor. Notum hydrolyzes the palmitoyl moiety from Wnt-3a, making the Wnt more hydrophilic and unable to bind to the Frizzled-8 receptor. It also induces the release of cell surface GPI-anchored proteins such as Glypican-3, Cadherin-13, and uPAR. Notum regulates head regeneration in planaria, head formation and neural induction in Xenopus, and long range activity of hedgehog proteins in Drosophila. It is up-regulated in some human hepatocellular carcinomas and colorectal cancers. Within amino acids 88-458, mouse Notum shares 92% and 99% aa sequence identity with human and rat Notum, respectively.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	60.8kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Umod uromodulin [<i>Mus musculus</i>]
Official Symbol	Umod
Synonyms	UMOD; uromodulin; THP; Tamm-Horsfall protein; Tamm-Horsfall glycoprotein; tamm-Horsfall urinary glycoprotein; urehr4; uromucoid; MGC14034;
Gene ID	22242
mRNA Refseq	NM_009470
Protein Refseq	NP_033496

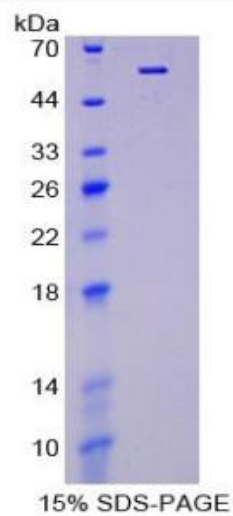
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UniProt ID

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