

Recombinant Human AUH, His-tagged

Cat. No. AUH-10072H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AUH protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-310a.a.
Description	The methylglutaconyl-CoA hydratase, mitochondrial protein binds to the AU-rich element (ARE), a common element found in the 3' UTR of rapidly decaying mRNA such as c-fos, c-myc and granulocyte/ macrophage colony stimulating factor. ARE elements are involved in directing RNA to rapid degradation and deadenylation. AUH is also homologous to enol-CoA hydratase, an enzyme involved in fatty acid degradation, and has been shown to have intrinsic hydratase enzymatic activity. AUH is thus a bifunctional chimera between RNA binding and metabolic enzyme activity. A possible subcellular localization in the mitochondria has been demonstrated for the mouse homolog of this protein which shares 92% identity with the human protein. It has been suggested that AUH may have a novel role as a mitochondrial located AU-binding protein. Human AUH is expressed as a single mRNA species of 1.8 kb, and translated as a 40-kDa precursor protein which is subsequently processed to a 32-kDa mature form.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

cycles.

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name

[AUH AU RNA binding protein/enoyl-CoA hydratase \[Homo sapiens \]](#)

Official Symbol

AUH

Synonyms

AUH; AU RNA binding protein/enoyl-CoA hydratase; AU RNA binding protein/enoyl Coenzyme A hydratase , AU RNA binding protein/enoyl Coenzyme A hydratase; methylglutaconyl-CoA hydratase, mitochondrial; 3-methylglutaconyl-CoA hydratase; AU-binding protein/Enoyl-CoA hydratase; AU-specific RNA-binding enoyl-CoA hydratase; AU RNA binding protein/enoyl-Coenzyme A hydratase; AU RNA-binding protein/enoyl-Coenzyme A hydratase;

Gene ID

[549](#)

mRNA Refseq

[NM_001698](#)

Protein Refseq

[NP_001689](#)

MIM

[600529](#)

UniProt ID

[Q13825](#)

Chromosome Location

9q22

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Pathway

Branched-chain amino acid catabolism, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, organism-specific biosystem; Leucine degradation, leucine => acetoacetate + acetyl-CoA, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

Function

RNA binding; enoyl-CoA hydratase activity; lyase activity; mRNA 3-UTR binding; methylglutaconyl-CoA hydratase activity;

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