



# Recombinant Human Methylglutaconyl-CoA hydratase, mitochondrial (AUH)

<b>Product Code</b>	CSB-MP621698HU
<b>Abbreviation</b>	AUH
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q13825
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SSE MKTEDELRV R HLEENRGIV VLGINRAYGK NSLSKNLIK M LSKAVDALKS DKKVRTIIIR SEVPGIFCAG ADLKERAKMS SSEVGPVFSK IRAVINDIAN LPVPTIAAID GLALGGGLEL ALACDIRVAA SSAKMGLVET KLAIPGGGG TQRLPRAIGM SLAKELIFSA RVLGDKAKA VGLISHVLEQ NQEGLAAYRK ALDLAREFLP QGPVAMRVAK LAINQGMEVD LVTGLAIEEA CYAQTPTKD RLEGLLAFKE KRPPRYKGE
<b>Source</b>	Mammalian cell
<b>Target Names</b>	AUH
<b>Protein Names</b>	Recommended name: Methylglutaconyl-CoA hydratase, mitochondrial EC= 4.2.1.18 Alternative name(s): AU-specific RNA-binding enoyl-CoA hydratase Short name= AU-binding protein/enoyl-CoA hydratase
<b>Expression Region</b>	68-339
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	AU-specific RNA-binding enoyl-CoA hydratase (AUH) 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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