



Recombinant Human Methylglutaconyl-CoA hydratase, mitochondrial (AUH)

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| Product Code | CSB-YP621698HU |
| Abbreviation | AUH |
| Storage | 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. |
| Uniprot No. | Q13825 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | ≥85% (SDS-PAGE) |
| Sequence | SSE MKTEDELRV R HLEENRGIV VLGINRAYGK NSLSKNLIK M LSKAVDALKS DKKVRTIIIR SEVPGIFCAG ADLKERAKMS SSEVGPVFSK IRAVINDIAN LPVPTIAAID GLALGGGLEL ALACDIRVAA SSAKMGLVET KLAIPGGGG TQRLPRAIGM SLAKELIFSA RVLGKEAKA VGLISHVLEQ NQEGLAAYRK ALDLAREFLP QGPVAMRVAK LAINQGMEVD LVTGLAIEEA CYAQTPTKD RLEGLLAFKE KRPPRYKGE |
| Source | Yeast |
| Target Names | AUH |
| Protein Names | 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 |
| Expression Region | 68-339 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Full Length of Mature Protein |
| Target Details | 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.

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.

Shelf Life

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