



Recombinant Human Methylglutaconyl-CoA hydratase, mitochondrial (AUH)

Product Code	CSB-EP621698HU-B
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 RVLGDKAKA VGLISHVLEQ NQEGLAAYRK ALDLAREFLP QGPVAMRVAK LAINQGMEVD LVTGLAIEEA CYAQTIPTKD RLEGLLAFKE KRPPRYKGE
Source	E.coli
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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