

Recombinant Human AUH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AUH-6380H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AUH MS Standard C13 and N15-labeled recombinant protein (NP_001689) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes bifunctional mitochondrial protein that has both RNA-binding and hydratase activities. The encoded protein is a methylglutaconyl-CoA hydratase that catalyzes the hydration of 3-methylglutaconyl-CoA to 3-hydroxy-3-methyl-glutaryl-CoA, a critical step in the leucine degradation pathway. This protein also binds AU-rich elements (AREs) found in the 3' UTRs of rapidly decaying mRNAs including c-fos, c-myc and granulocyte/ macrophage colony stimulating factor. ARE elements are involved in directing RNA to rapid degradation and deadenylation. This protein is localizes to the mitochondrial matrix and the inner mitochondrial membrane and may be involved in mitochondrial protein synthesis. Mutations in this gene are the cause of 3-methylglutacnic aciduria, type I. Alternative splicing results in multiple transcript variants.
Molecular Mass	35.61 kDa
AA Sequence	MAAAVAAAPGALGSLHAGGARLVAACSAWLCPGLRLPGSLAGRRAGPAIWAQGWW PAAGGPAPKRGYSSEMKTEDELVRVHLEENRGIVVLGINRAYGKNSLSKNLIKMLS KAVDALKSDKKVRTIIIRSEVPGIFCAGADLKERAKMSSSEVGPFVSKIRAVINDIANLP

 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

VPTIAAIDGLALGGGLELALACDIRVAASSAKMGLVETKLAIPGGGGTQRLPRAIGMS
LAKELIFSARVLDGKEAKAVGLISHVLEQNQEGDAAYRKALDLAREFLPQGPVAMRV
AKLAINQGMEVDLVTGLAIEEACYAQTIPTKDRLEGLLAFKEKRPPRYKGETRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AUH AU RNA binding protein/enoyl-CoA hydratase [Homo sapiens (human)]

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

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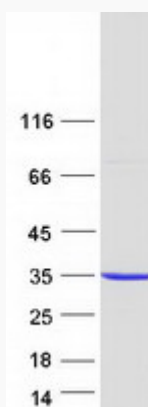
mRNA Refseq [NM_001698](#)

Protein Refseq [NP_001689](#)

MIM [600529](#)

UniProt ID [Q13825](#)

SDS-PAGE



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