

Product datasheet for PH318117

AUH (NM_001698) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AUH MS Standard C13 and N15-labeled recombinant protein (NP_001689)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218117
Predicted MW:	35.61 kDa
Protein Sequence:	>RC218117 representing NM_001698 Red =Cloning site Green =Tags(s) MAA AVAAAPGALGSLHAGGARLVAACSAWLC PGLR L PGLAGRRAGPAIWAQGWVPAAGGPAPKRGYSSE MKTEDELVRHLEENRGIVVLGINRAYGKNSLSKNLIKMLSKAVDALKSDKKVRTIIIRSEVPGIFCAG ADLKERAKMSSSEVGPVFSKIRAVINDIANLPVPTIAAIDGLALGGLELALACDIRVAASSAKMGLVET KLAIIIPGGGGTQRLPRAIGMSLAKELIFSARVLDGKEAKAVGLISHVLEQNQEGDAAYRKALDLAREFLP QGPVAMRVAKLA INQGMEVDLVTGLAIEEACYAQT IPTKDRLEGLLAFKEKRPPRYKGE TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001689
RefSeq Size:	1548
RefSeq ORF:	1017
Locus ID:	549
UniProt ID:	Q13825



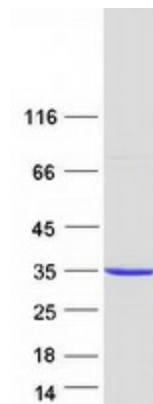
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Cytogenetics: 9q22.31

Summary: 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-methylglutaconic aciduria, type I. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Protein Pathways: Metabolic pathways, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified AUH protein (Cat# [TP318117]). The protein was produced from HEK293T cells transfected with AUH cDNA clone (Cat# [RC218117]) using MegaTran 2.0 (Cat# [TT210002]).