

Recombinant Human AUH protein, GST-tagged

Cat. No. AUH-1035H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AUH partial ORF (NP_001689, 44 a.a. - 135 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Sep 2015]
Molecular Mass	35.86 kDa
AA Sequence	RAGPAIWAQGWVPAAGGPAPKRGYSSEMKTDELVRHLEEEENRGIVVLGINRAY GKNLSKLNLIKMLSKAVDALKSDKKVRTIIIRSEVPG
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);

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Antibody Production; Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	AUH AU RNA binding protein/enoyl-CoA hydratase [Homo sapiens]
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
mRNA Refseq	NM_001698
Protein Refseq	NP_001689
MIM	600529
UniProt ID	Q13825

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