Recombinant Human AMPD1, His-tagged

Cat. No. AMPD1-3428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AMP deaminase 1 (AMPD1)
Species	Human
Source	E.Coli/Yeast
ProteinLength	780
Description	Adenosine monophosphate deaminase 1 catalyzes the deamination of AMP to IMP in skeletal muscle and plays an important role in the purine nucleotide cycle. Two other genes have been identified, AMPD2 and AMPD3, for the liver- and erythocyte-specific isoforms, respectively. Deficiency of the muscle-specific enzyme is apparently a common cause of exercise-induced myopathy and probably the most common cause of metabolic myopathy in the human. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of AMPD1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.

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Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	AMPD1 adenosine monophosphate deaminase 1 [Homo sapiens]
Official Symbol	AMPD1
Synonyms	AMPD1; adenosine monophosphate deaminase 1; adenosine monophosphate deaminase 1 (isoform M); AMP deaminase 1; AMPD isoform M; MAD; MADA; skeletal muscle AMPD; AMPD; myoadenylate deaminase; adenosine monophosphate deaminase-1 (muscle);
Gene ID	270
mRNA Refseq	NM_000036
Protein Refseq	NP_000027
UniProt ID	P23109
Chromosome Location	1p13
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine

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	metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabo
Function	AMP deaminase activity; hydrolase activity; metal ion binding;

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