

Recombinant Full Length Human AMPD1 Protein, GST-tagged

Cat. No. AMPD1-588HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human AMPD1(1 a.a. - 747 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	747 amino acids
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 erythrocyte-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	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	109.12 kDa
AA Sequence	MPLFKLPAEE KQIDDAMRNF AEKVFASEVK DEGGRQEISP FDVDEICPIS HHEMQAHIFH LETLSTSTEARRKKRFQGRK TVNLSIPLSE TSSTKLSHID EYISSSPTYQ TVPDFQRVQI TGDYASGVTV EDFEIVCKGL YRALCIREKY MQKSFQRFPK TPSKYLRNID GEAWVANESF YPVFTPPVKK GEDPFRTDNL

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PENLG YHLKM KDG VVYYPN EAAVSKDEPK PLPYPNLDTF LDDMNFLAL
 IAQGPVKTYT HRRLKFLSSK FQVHQMLNEM DELKELKNNP HRDFYNCRKV
 DTHIHAAACM NQKHLLRFIK KSYQIDADRV VYSTKEKNLT LKELFAKLKM
 HPYDLTVDSL DVHAGRQTFQ RFDKFNDKYN PVGASELRDL YLKT DNYING
 EYFATIIKEV GADLVEAKYQ HAEPRLSIYG RSPDEWSKLS SWFVCNRIHC
 PNMTWMIQVP RIYDVFRSKN FLPHFGKMLE NIFMPVFEAT INPQADPELS
 VFLKHITGFD SVDDESKHSG HMFSSKSPKP QEWTLEKNPS YTTYAYMYA
 NIMVLNSLRK ERGMNTFLFR PHCGEAGALT HLMTAFMIAD DISHGLNLKK
 SPVLQYLFFL AQIPIAMSPL SNNSLFLEYA KNPFLDFLQK GLMISLSTDD
 PMQFHFTKEP LMEEYAIAAQ VFKLSTCDMC EVARNSVLQC GISHEEKVKF
 LGDNYLEEGP AGNDIRRTNV AQIRMAYRYE TWCYELNLIA EGLKSTE

Purity 0.125

Applications Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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](#)

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mRNA Refseq	NM_000036
Protein Refseq	NP_000027
MIM	102770
UniProt ID	P23109

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