

Product datasheet for PH317919

AMPD1 (NM_000036) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AMPD1 MS Standard C13 and N15-labeled recombinant protein (NP_000027)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217919
Predicted MW:	86.5 kDa
Protein Sequence:	>RC217919 representing NM_000036 Red=Cloning site Green=Tags(s)

MPLFKLPAAEKQIDDAMRNFAEKVFASEVKDEGGRQEISPFVDVEICPISHHEMQAHIFHLETSTSTEA
RRKKRFQGRKTVNLSIPLSETSSTKLSHIDEYISSPTYQTPPDFQRVQITGDYASGVTVEDFEIVCKGL
YRALCIREKYMQKSFQRFPKTPSKYLRNIDGEAWVANESFYVPVTPPVKKGEDPFRTDNLNENLGYHLKM
KDGVVVVYPNEAAVSKDEPKPLYPNLDLTFDDMNFLALIAQGPVKTYTHRRLKFLSSKFQVHQMLNEM
DELKELINNPHRDFYNCRKVDTHIAAACMNQKHLLRFIKKSYQIDADRVVYSTKEKNLTLKELFAKLKM
HPYDLTVDSLVDHAGRQTFQRFDKFNDKYNPVGASELRDLYLKTDNYINGEYFATIIKEVGADLVEAKYQ
HAEPRLSIYGRSPDEWSKLSWFVCNRIHCPNMTWMIQVPRIYDVFRSKNFLPHFGKMLENIFMPVFEAT
INPQADPEL SVFLKHITGFDSVDDSKHSGHMFSSKSPKQEWLTKNPSYTYAYMYANIMVNLRLK
ERGMNTFLFRPHCGEAGALTHLMTAFMIADDISHGLNLKSPVLQYLFFLAQIPIAMSPLSNNSLFLEYA
KNPFLDFLQGLMISLSTDDPMQFHFTKEPLMEEYIAAQVFKLSTCDMCEVARNVSVLQCGISHEEKVKF
LGDNYLEEGPAGNDIRRTNVAQIRMAIRYETWCYELNLIAEGLKSTE

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u>NP_000027</u>



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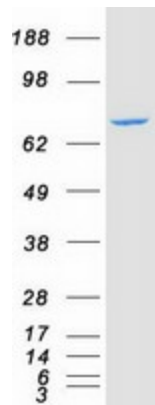
RefSeq Size:	2426
RefSeq ORF:	2241
Synonyms:	MAD; MADA; MMDD
Locus ID:	270
UniProt ID:	P23109
Cytogenetics:	1p13.2

Summary: 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.[provided by RefSeq, Feb 2010]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified AMPD1 protein (Cat# [TP317919]). The protein was produced from HEK293T cells transfected with AMPD1 cDNA clone (Cat# [RC217919]) using MegaTran 2.0 (Cat# [TT210002]).