

Product datasheet for PH316874

APRT (NM_000485) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	APRT MS Standard C13 and N15-labeled recombinant protein (NP_000476)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216874
Predicted MW:	19.6 kDa
Protein Sequence:	<p>>RC216874 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MADSELQLVEQIRSFDPFPTPGVVFRDISPVLKDPASFRAAIGLLARHLKATHGGRIDYIAGLDSRGFL FGPSLAQELGLGCVLIRKRGKLPGPTLWASYSLEYGKAELEIQKDALEPGQRVVVVDDLLATGGTMNAAC ELLGRLQAEVLECVSLVELTSLKGREKLAPVPFFSLLQYE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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_000476</u>
RefSeq Size:	807
RefSeq ORF:	540
Synonyms:	AMP; APRTD
Locus ID:	353
UniProt ID:	<u>P07741</u>


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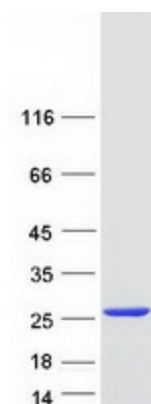
Cytogenetics: 16q24.3

Summary: Adenine phosphoribosyltransferase belongs to the purine/pyrimidine phosphoribosyltransferase family. A conserved feature of this gene is the distribution of CpG dinucleotides. This enzyme catalyzes the formation of AMP and inorganic pyrophosphate from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP). It also produces adenine as a by-product of the polyamine biosynthesis pathway. A homozygous deficiency in this enzyme causes 2,8-dihydroxyadenine urolithiasis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified APRT protein (Cat# [TP316874]). The protein was produced from HEK293T cells transfected with APRT cDNA clone (Cat# [RC216874]) using MegaTran 2.0 (Cat# [TT210002]).