

Recombinant Human Adenine phosphoribosyltransferase

Cat. No. APRT-1939H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human APRT protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 19.6 kDa (180aa).
Species	Human
Source	<i>E.coli</i>
Description	APRT (adenine phosphoribosyltransferase) is a 180 amino acid protein that localizes to the cytoplasm and belongs to the purine/pyrimidine phosphoribosyltransferase family. Existing as a homodimer, APRT functions to catalyze the formation of inorganic pyrophosphate and AMP from adenine and 5-phosphoribosyl-1-pyrophosphate (PRPP), a reaction that is essential for both purine metabolism and AMP biosynthesis. It also produces adenine as a by-product of the polyamine biosynthesis pathway.
Purity	> 90% by SDS – PAGE.
Physical Appearance	Liquid.
Formulation	In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MADSELQLVE QRIRSFDFP TPGVVFRDIS PVLKDPASFR AAIGLLAR HLKATHGG RIDY IAGLDSRGFL FGPSLAQELG LGCVLIRKRGKLPGLPTLWAS YSLEYGKAEL EIQKDALEPG QRVVVDDLL ATGGTMNAAC ELLGRLQAEV LECVSLVELT

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SLKGREKLAP VPFFSLLQYE.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

APRT adenine phosphoribosyltransferase [Homo sapiens]

Synonyms

APRT; adenine phosphoribosyltransferase; AMP; MGC125856; MGC125857; MGC129961; DKFZp686D13177; AMP diphosphorylase; AMP pyrophosphorylase; transphosphoribosidase; EC 2.4.2.7

Gene ID

353

mRNA Refseq

NM_000485

Protein Refseq

NP_000476

MIM

102600

UniProt ID

P07741

Chromosome Location

16q24

Pathway

Metabolic pathways; Purine metabolism; Metabolism of nucleotides

Function

AMP binding; adenine binding; adenine phosphoribosyltransferase activity; protein binding; transferase activity, transferring glycosyl groups

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Ribbon diagram of a human APRT dimer, in complex with PRPP, adenine and ribose 5-phosphate. One magnesium ion visible in green. From PDB 1ZN7.

