

# Recombinant Human Adenine phosphoribosyltransferase

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant human APRT protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 19.6 kDa (180aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Physical Appearance</b>	Liquid.
<b>Formulation</b>	In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino Acids</b>	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**

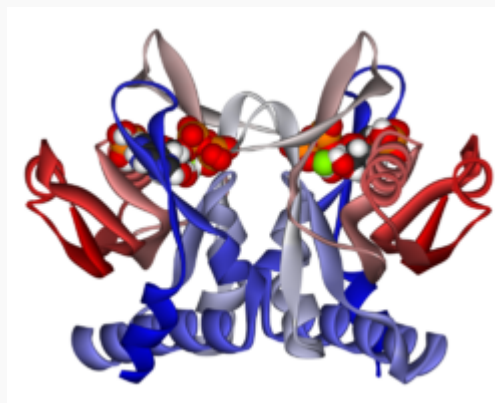
AMP binding; adenine binding; adenine phosphoribosyltransferase activity; protein binding; transferase activity, transferring glycosyl groups

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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.



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