

Recombinant Human APRT protein, His-tagged

Cat. No. APRT-591H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APRT (P07741) aa. (Met1~Glu180) fused with His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Glu180
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 23.3kDa; Accurate Molecular Mass: 23kDa as determined by SDS-PAGE reducing conditions.
Purity	>98%
Characteristic	Isoelectric point is 6.8.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

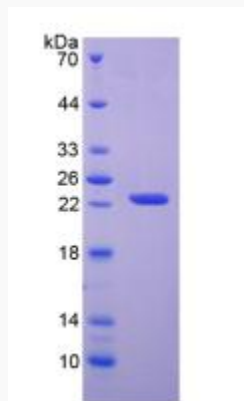
Gene Name	APRT adenine phosphoribosyltransferase [Homo sapiens (human)]
Official Symbol	APRT
Synonyms	APRT; adenine phosphoribosyltransferase; AMP; APRTD; AMP diphosphorylase; AMP pyrophosphorylase; transphosphoribosidase
Gene ID	353
mRNA Refseq	NM_000485.2
Protein Refseq	NP_000476.1
UniProt ID	P07741

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SDS-PAGE



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