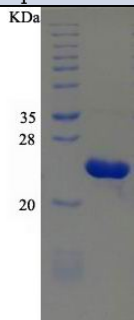


Recombinant Human APRT Protein Data Sheet

Catalog #	hRP-C0522-EF012
Size	100 µg
Protein Name	Human adenine phosphoribosyl transferase
Protein Symbol	APRT
Original Source	<i>Homo sapiens</i>
Expression System	<i>E.coli</i>
GenBank Accession #	NM_000485.1
Uniprot Accession #	P07741
Description	Adenine phosphoribosyltransferase belongs to purine/pyrimidine phosphoribosyltransferase family. 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.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	195aa(including fusion tag)
Molecular Weight	21.5kDa(including fusion tag)
pI	7.0
Activity	NA
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH8.0. Store at -80°C and avoid repeated freeze-thaw cycles.
	
Reference:	• Structural complexes of human adenine phosphoribosyltransferase reveal novel features of the APRT catalytic mechanism • Adenine phosphoribosyltransferase deficiency and its purine metabolism • Adenine phosphoribosyltransferase deficiency in children • Three-dimensional structure of human adenine phosphoribosyltransferase and its relation to DHA-urolithiasis • Phenotype and genotype characterization of adenine phosphoribosyltransferase deficiency

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