

# Recombinant Human APRT protein, GST-tagged

**Cat. No.** APRT-729H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human APRT full-length ORF ( NP_000476.1, 1 a.a. - 180 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 46 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MADSELQLVEQRI RSFPDFPTPGVVFRDISPVLKDPASFRAAIGLLARHLKATHGGRI<br>DYIAGLDSRGFLFGPSLAQELGLGCVLIRKRGKLPGPTLWASYSLEYGKAELEIQKDA<br>LEPGQRVVVDDLLATGGTMNAACELLGRLQAEVLECVSLVELTSLKGREKLAPVPF<br>FSLQYE                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);<br>Antibody Production; Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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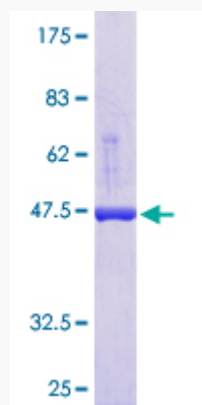
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                             |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                           |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                    |
| <b>Gene Name</b>        | APRT adenine phosphoribosyltransferase [ Homo sapiens ]                                                                                                            |
| <b>Official Symbol</b>  | APRT                                                                                                                                                               |
| <b>Synonyms</b>         | APRT; adenine phosphoribosyltransferase; AMP diphosphorylase; AMP pyrophosphorylase; transphosphoribosidase; AMP; MGC125856; MGC125857; MGC129961; DKFZp686D13177; |
| <b>Gene ID</b>          | 353                                                                                                                                                                |
| <b>mRNA Refseq</b>      | NM_000485                                                                                                                                                          |
| <b>Protein Refseq</b>   | NP_000476                                                                                                                                                          |
| <b>UniProt ID</b>       | P07741                                                                                                                                                             |

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12.5% SDS-PAGE Stained with Coomassie Blue.

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