

# Recombinant Full Length Human GART Protein, GST-tagged

Cat. No. GART-5447HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GART full-length ORF ( AAH38958.1, 1 a.a. - 433 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	433 amino acids
<b>Description</b>	The protein encoded by this gene is a trifunctional polypeptide. It has phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase activity which is required for de novo purine biosynthesis. This enzyme is highly conserved in vertebrates. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq]
<b>Molecular Mass</b>	73.37 kDa
<b>AA Sequence</b>	MAARVLIIGSGGREHTLAWKLAQSHHVKQVLVAPGNAGTACSEKISNTAISISDHTAL AQFCKEKKIEFVVVGPEAPLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMD RHGIPTAQWKAFTKPEEACSFILSADFPALVVKASGLAAGKGVIVAKSKEEACKAVQ EIMQEKAFGAAGETIVIEELLDGEEVSCLCFTDGKTVAPMPPAQDCHKRLLEGDGGPN TGGMGAYCPAPQVSNLLLLKIKDTVLQRTVDGMQQEGTPYTGILYAGIMLTKNPK VLEFNCRFGDPECQVILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVVMASKG YPGDYTKGVEITGFPEAQALGLEVFHAGTALKNGKVVTHGGRVLAVTAIRENLISALE

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EAKKGLAAIKFEGAIYRKDVGFRAIAFLQQPR

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

[GART phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase \[ Homo sapiens \]](#)

**Official Symbol**

[GART](#)

**Synonyms**

GART; phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase; PGFT, PRGS; trifunctional purine biosynthetic protein adenosine-3; AIRS; GARS; PAIS; PGFT; PRGS; GARTF; MGC47764;

**Gene ID**

[2618](#)

**mRNA Refseq**

[NM\\_000819](#)

**Protein Refseq**

[NP\\_000810](#)

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<b>MIM</b>	138440
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<b>UniProt ID</b>	P22102
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