Recombinant Human GART cell lysate

Cat. No. GART-687HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

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

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	purine biosynthetic protein adenosine-3; AIRS; GARS; PAIS; PGFT; PRGS; GARTF; MGC47764;
Gene ID	2618
mRNA Refseq	NM_000819
Protein Refseq	NP_000810
MIM	138440
UniProt ID	P22102
Chromosome Location	21q22.11
Pathway	5-aminoimidazole ribonucleotide biosynthesis I, organism-specific biosystem; Inosine monophosphate biosynthesis, PRPP + glutamine =>IMP, organism-specific biosystem; Inosine monophosphate biosynthesis, PRPP + glutamine => IMP, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; ligase activity; metal ion binding; methyltransferase activity; nucleotide binding; phosphoribosylamine-glycine ligase activity; phosphoribosylformylglycinamidine cyclo-ligase activity; phosphoribosylglycinamide formyltransferase activity; transferase activity;

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