

## Product datasheet for PH320898

### GART (NM\_175085) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GART MS Standard C13 and N15-labeled recombinant protein (NP_780294)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220898
Predicted MW:	45.9 kDa
Protein Sequence:	>RC220898 representing NM_175085 Red=Cloning site Green=Tags(s)  MAARVLIIGSGGREHTLAWKLAQSHHVKQVLVAPGNAGTACSEKISNTAISISDHTALAQFCKEKKIEFV VVGPEAPLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIPTAQWKAFTKPEEACSFILSA DFPALVVKASGLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIEELLDGEEVSLCFTDGTKVA PMPPAQDQHKRLLEGDGGPNTGGMGAYCPAPQVSNLLLLIKDQVLRQTVDMQEQGTPYTGILYAGIMLT KNGPKVLEFNCRFGDPECQVILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVVMASKGYPGDYTK GVEITGFPEAQUALGLEVFHAGTALKNGKVVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKD VGFRAIAFLQQPR  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_780294</a>
RefSeq Size:	2162
RefSeq ORF:	1299
Synonyms:	AIRS; GARS; GARTF; PAIS; PGFT; PRGS



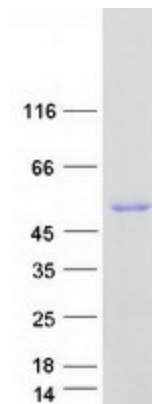
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Locus ID: 2618  
UniProt ID: [P22102](#)  
Cytogenetics: 21q22.11

**Summary:** 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, Jul 2008]

**Protein Pathways:** Metabolic pathways, One carbon pool by folate, Purine metabolism

### Product images:



Coomassie blue staining of purified GART protein (Cat# [TP320898]). The protein was produced from HEK293T cells transfected with GART cDNA clone (Cat# [RC220898]) using MegaTran 2.0 (Cat# [TT210002]).