

Product datasheet for **TP320898**

GART (NM_175085) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART), transcript variant 2, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC220898 representing NM_175085
Red=Cloning site **Green**=Tags(s)

MAARVLIIGSGGREHTLAWKLAQSHHVKQVLVAPGNAGTACSEKISNTAISISDHTALAQFCKEKKIEFV
VVGPEAPLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHHGIPTAQWKAFTKPEEACSFILSA
DFPALVVKASGLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIEELLDGEEVSLCFTDGTVA
PMPPAQDHRLLLEGDGGPNTGGMGAYCPAPQVSNDLLLKIKDTVLQRTVDGMQQEGTPYTGILYAGIMLT
KNGPKVLEFNCRFGDPECQVILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVMASKGYPGDYTK
GVEITGFPEAALGLEVFHAGTALKNGKVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKD
VGFRAIAFLQQPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 45.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

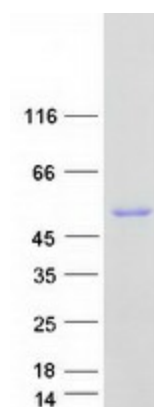
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_780294
Locus ID:	2618
UniProt ID:	P22102
RefSeq Size:	2162
Cytogenetics:	21q22.11
RefSeq ORF:	1299
Synonyms:	AIRS; GARS; GARTF; PAIS; PGFT; PRGS
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]).