Recombinant Human GAR1, GST-tagged

Cat. No. GAR1-13156H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAR1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-217a.a.
Description	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individuals susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	GAR1 GAR1 ribonucleoprotein homolog (yeast) [Homo sapiens]
Official Symbol	GAR1
Synonyms	GAR1 ribonucleoprotein homolog (yeast); 14264; Ensembl:ENSG00000109534; H/ACA ribonucleoprotein complex subunit 1;snoRNP protein GAR1;nucleolar protein family A member 1;nucleolar protein family A, member 1 (H/ACA small nucleolar RNPs); NOLA1
Gene ID	54433
mRNA Refseq	NM_018983.3
Protein Refseq	NP_061856.1
MIM	606468
UniProt ID	Q9NY12
Chromosome Location	4q25
Pathway	H/ACA ribonucleoprotein complex, organism-specific biosystem; Ribosome

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	biogenesis in eukaryotes, organism-specific biosystem; Ribosome biogenesis in eukaryotes, conserved biosystem;
Function	cation channel activity; pseudouridine synthase activity; snoRNA binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA