H/ACA Ribonucleoprotein Complex Subunit 1 (GAR1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	H/ACA ribonucleoprotein complex subunit 1 (Gar1), Recombinant Protein
Full Product Name	Recombinant Rat H/ACA ribonucleoprotein complex subunit 1 (Gar1)
Product Gene Name	Gar1 recombinant protein
Product Synonym Gene Name	Gar1
Sequence	MSFRGGGRGG FNRGGGGGGF NRGGGSNNHF RGGGGGGGGG GNFRGGGRGG FGRGGGRGGF NKFQDQGPPE RVVLLGEFMH PCEDDIVCKC TTEENKVPYF NAPVYLENKE QIGKVDEIFG QLRDFYFSVK LSENMKASSF KKLQKFYIDP YKLLPLQRFL PRPPGEKGPP RGGGGGGGGG RGGRGGGRGG GGRGGGRGGG FRGGRGGGGG FRGGRGGGGG FRGRGH
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	23,011 Da
Sequence Positions	1-226, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6AYA1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Gar1 recombinant protein	This gene is a member of the H ACA snoRNPs (small nucleolar ribonucleoproteins) gene family. snoRNPs are involved in various aspects of rRNA processing and modification and have been classified into two families: C D and H ACA. The H ACA snoRNPs also include the DKC1, NOLA2 and NOLA3 proteins. These four H ACA snoRNP proteins localize to the dense fibrillar components of nucleoli and to coiled (Cajal) bodies in the nucleus. Both 18S rRNA production and rRNA pseudouridylation are impaired if any one of the four proteins is depleted. These four H ACA snoRNP proteins are also components of the telomerase complex. The encoded protein of this gene contains two glycine- and arginine-rich domains and is related to Saccharomyces cerevisiae Gar1p. Two splice variants have been found for this gene.
Other Notes	Small volumes of Gar1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Gar1 purchase	MBS1466966 is a recombinant protein targeting Gar1. Also known as Recombinant Rat H/ACA ribonucleoprotein complex subunit 1 (Gar1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Gar1. It may not necessarily be applicable to this product.

NCBI GI #	66730309
NCBI GeneID	499709
NCBI Accession #	NP_001019477.1
UniProt Primary Accession #	Q6AYA1
UniProt Related Accession #	Q6AYA1
GenBank Nucleotide #	NM_001024306.1
NCBI Official Full Name	H/ACA ribonucleoprotein complex subunit 1
NCBI Official Synonym Full Names	GAR1 ribonucleoprotein
NCBI Official Symbol	Gar1
NCBI Official Synonym Symbols	Nola1
UniProt Protein Name	H/ACA ribonucleoprotein complex subunit 1
UniProt Synonym Protein Names	Nucleolar protein family A member 1; snoRNP protein GAR1
Protein Family	D-galacturonate reductase
UniProt Gene Name	Gar1
UniProt Synonym Gene Names	Nola1
NCBI Protein Information	H/ACA ribonucleoprotein complex subunit 1
UniProt Comments for Gar1	Required for ribosome biogenesis and telomere maintenance. Part of the H/ACA small nucleolar ribonucleoprotein (H/ACA snoRNP) complex, which catalyzes pseudouridylation of rRNA. This involves the isomerization of uridine such that the ribose is subsequently attached to C5, instead of the normal N1. Each rRNA can contain up to 100 pseudouridine ("psi") residues, which may serve to stabilize the conformation of rRNAs. May also be required for correct processing or intranuclear trafficking of TERC, the RNA component of the telomerase reverse transcriptase (TERT) holoenzyme ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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