Cell Growth-Regulating Nucleolar Protein (LYAR) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cell growth-regulating nucleolar protein (LYAR), Recombinant Protein
Full Product Name	Recombinant Human Cell growth-regulating nucleolar protein (LYAR)
Product Gene Name	LYAR recombinant protein
Product Synonym Gene Name	LYAR
Sequence	MVFFTCNACG ESVKKIQVEK HVSVCRNCEC LSCIDCGKDF WGDDYKNHVK CISEDQKYGG KGYEGKTHKG DIKQQAWIQK ISELIKRPNV SPKVRELLEQ ISAFDNVPRK KAKFQNWMKN SLKVHNESIL DQVWNIFSEA SNSEPVNKEQ DQRPLHPVAN PHAEISTKVP ASKVKDAVEQ QGEVKKNKRE RKEERQKKRK REKKELKLEN HQENSRNQKP KKRKKGQEAD LEAGGEEVPE ANGSAGKRSK KKKQRKDSAS EEEAHVGAGK RKRRHSEVET DSKKKKMKLP EHPEGGEPED DEAPAKGKFN WKGTIKAILK QAPDNEITIK KLRKKVLAQY YTVTDEHHRS EEELLVIFNK KISKNPTFKL LKDKVKLVK
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	45.6 kDa
Sequence Positions	1-379aa, 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.
OMIM	617684
3D Structure	ModBase 3D Structure for Q9NX58
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LYAR recombinant protein	MBS1438303 is a recombinant protein targeting LYAR. Also known as Recombinant Human Cell growth-regulating nucleolar protein (LYAR). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LYAR 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.

ADDITIONAL DETAILS

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

NCBI GI #	224591430
NCBI GeneID	55646
NCBI Accession #	NP_001139197.1

UniProt Primary Accession #	Q9NX58
UniProt Secondary Accession #	Q6FI78; Q9NYS1; D3DVS4
UniProt Related Accession #	Q9NX58
GenBank Nucleotide #	NM_001145725.1
NCBI Official Full Name	cell growth-regulating nucleolar protein
NCBI Official Synonym Full Names	Ly1 antibody reactive
NCBI Official Symbol	LYAR
NCBI Official Synonym Symbols	ZLYAR; ZC2HC2
UniProt Protein Name	Cell growth-regulating nucleolar protein
Protein Family	Cell growth-regulating nucleolar protein
UniProt Gene Name	LYAR
NCBI Protein Information	cell growth-regulating nucleolar protein
UniProt Comments for LYAR	Plays a role in the maintenance of the appropriate processing of 47S/45S pre-rRNA to 32S/30S pre-rRNAs and their subsequent processing to produce 18S and 28S rRNAs (PubMed:24495227). Also acts at the level of transcription regulation. Along with PRMT5, binds the gamma-globin (HBG1/HBG2) promoter and represses its expression (PubMed:25092918). In neuroblastoma cells, may also repress the expression of oxidative stress genes, including CHAC1, HMOX1, SLC7A11, ULBP1 and SNORD41 that encodes a small nucleolar RNA (PubMed:28686580). Preferentially binds to a DNA motif containing 5'-GGTTAT-3' (PubMed:25092918). Stimulates phagocytosis of photoreceptor outer segments by retinal pigment epithelial cells (). Prevents nucleolin/NCL self-cleavage, maintaining a normal steady-state level of NCL protein in undifferentiated embryonic stem cells (ESCs), which in turn is essential for ESC self-renewal ().
Research Articles on LYAR	**1.** LYAR may promote tumor cell migration and invasion by upregulating galectin-1 gene expression in colorectal cancer.
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