Arginine--Trna Ligase, Cytoplasmic (RARS) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Arginine--tRNA ligase, cytoplasmic (Rars), Recombinant Protein
Full Product Name	Recombinant Mouse Arginine--tRNA ligase, cytoplasmic (Rars)
Product Gene Name	Rars recombinant protein
Product Synonym Gene Name	Rars
Sequence	MDGLVAQCSA RLLQQEREIK ALTAEIDRLK NCGCLEASPS LEQLREENLK LKYRLNILRR SLQEERRKPT KNMININSRL QEVFGCAIRA AYPDLENPPL IVTPSQQPKF GDYQCNSAMG ISQMLKAKEQ KVSPREIAEN ITKHLPNNKY IDKVEIAGPG FINVHLRKDF VSEQLTSLLV NGVQLPVLGD KEKVIVDFSS PNIAKEMHVG HLRSTIIGES MSRLFEFAGY DVLRLNHVGD WGTQFGMLIA HLQDKFPDYL TVSPPIGDLQ AFYKESKKRF DADEEFKKRA YQCVVLLQSK NPDIMKAWNL ICDVSREEFK KIYDALDITL IERGESFYQD RMKDIVKEFE DKGFVQVDDG RKIVFVPGCS VPLTIVKSDG GYTYDTSDLA AIKQRLFEEK ANKIIYVVDN GQAIHFQTIF AAAQMIGWYD PKVTLVTHVG FGVVLGEDKK KFKTRSGETV RLMDLLEEGL KRSMDKLKEK ERDKVLTEEE LKAAQTSVAY GCIKYADLSH NRLNDYIFSF DKMLDDRGNT AAYLLYAFTR IRSIARLANI DEAMLQRAAR ETKIILDHEK EWKLGRCILR FPEILQKILD DLFLHTLCDY IYELATTFTE FYDSCYCVEK DRQTGKVLKV NMWRMLLCEA VAAVMAKGFD ILGIKPVQRM
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	75,674 Da
Sequence Positions	1-660, 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 Q9D0I9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rars recombinant protein	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family.
Other Notes	Small volumes of Rars 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 Rars purchase	MBS1352753 is a recombinant protein targeting Rars. Also known as Recombinant Mouse Arginine--tRNA ligase, cytoplasmic (Rars). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	262118273
NCBI GeneID	104458
NCBI Accession #	NP_080212.2
UniProt Primary Accession #	Q9D0I9
UniProt Secondary Accession #	Q3THP2; Q3TM73; Q3U8R2; Q3U930; Q5SXA8; Q8VDW1
UniProt Related Accession #	Q9D0I9
GenBank Nucleotide #	NM_025936.3
NCBI Official Full Name	arginine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	arginyl-tRNA synthetase
NCBI Official Symbol	Rars
NCBI Official Synonym Symbols	AL033339; AW985894; 2610011N19Rik; 2610037E21Rik
UniProt Protein Name	Arginine--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Arginyl-tRNA synthetase; ArgRS
Protein Family	Arginine--tRNA ligase
UniProt Gene Name	Rars
UniProt Synonym Gene Names	ArgRS
NCBI Protein Information	arginine--tRNA ligase, cytoplasmic
UniProt Comments for Rars	Forms part of a macromolecular complex that catalyzes the attachment of specific amino acids to cognate tRNAs during protein synthesis (PubMed:12060739). Modulates the secretion of AIMP1 and may be involved in generation of the inflammatory cytokine EMAP2 from AIMP1.
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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