Modulator of Retrovirus Infection Homolog (MRI) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Modulator of retrovirus infection homolog (Mri), Recombinant Protein
Full Product Name	Recombinant Rat Modulator of retrovirus infection homolog (Mri)
Product Gene Name	Mri recombinant protein
Product Synonym Gene Name	Mri
Sequence	METLKSDNKK RVLPSWMTAP GNERKVVSVK TAKRKQTAAI RVGAATRAPA KETVYCMNEA EMVDVALGIL IEGRKQEKPW EQPSLVAPDK LQLSPPCSES PHTSSPGSSS EEEDSRTDSP ALGLSPARGP EASNSPCSRS PEEGKEEEDE LKYVREIFFS
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	17,487 Da
Sequence Positions	1-160, 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 Q6AYH4
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mri recombinant protein	MBS1367562 is a recombinant protein targeting Mri. Also known as Recombinant Rat Modulator of retrovirus infection homolog (Mri). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mri 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 Mri. It may not necessarily be applicable to this product.

NCBI GI #	66730276
NCBI GeneID	500077
NCBI Accession #	NP_001019496.1
UniProt Primary Accession #	Q6AYH4
UniProt Related Accession #	Q6AYH4
GenBank Nucleotide #	NM_001024325.1

NCBI Official Full Name	cell cycle regulator of non-homologous end joining
NCBI Official Synonym Full Names	similar to RIKEN cDNA 3110062M04
NCBI Official Symbol	LOC500077
NCBI Official Synonym Symbols	Mri; Cyren
UniProt Protein Name	Cell cycle regulator of non-homologous end joining
UniProt Synonym Protein Names	Modulator of retrovirus infection homolog
Protein Family	Modulator of retrovirus infection
UniProt Gene Name	Cyren
UniProt Synonym Gene Names	Cell cycle regulator of NHEJ
NCBI Protein Information	cell cycle regulator of non-homologous end joining; modulator of retrovirus infection homolog
UniProt Comments for Mri	Cell-cycle-specific inhibitor of classical non-homologous end joining (NHEJ) of DNA double-strand break (DSB) repair during the S and G2 phases. Acts as a regulator of DNA repair pathway choice by specifically inhibiting classical NHEJ during the S and G2 phases, thereby promoting error-free repair by homologous recombination during cell cycle phases when sister chromatids are present. Preferentially protects single-stranded overhangs at break sites by inhibiting classical NHEJ, thereby creating a local environment that favors homologous recombination. Acts via interaction with XRCC5/Ku80 and XRCC6/Ku70, interaction restricted during the S and G2 phases only. Molecular mechanisms governing classical NHEJ inhibition via interaction with XRCC5/Ku80 and XRCC6/Ku70 are unknown (). May act as a regulator of proteasome ().
Research Articles on Mri	**1.** Characterizes the hamster ortholog and suggests that it may modulate the ability of the proteasome to degrade retroviral cores upon cellular infection.
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