Zygote Arrest Protein 1 (ZAR1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Zygote arrest protein 1 (Zar1), Recombinant Protein
Full Product Name	Recombinant Rat Zygote arrest protein 1 (Zar1)
Product Gene Name	Zar1 recombinant protein
Product Synonym Gene Name	Zar1
Sequence	MFPASTPHPC PHPYPPTAAK AGDGWRFGAR GCRPEPPSFL PGYRQLMAAE YFDSYQRAQL MALLSRMGPR PVSSRDAAVQ VNPRRDASVQ CSLGRRTLQP GRRRASPDAR PGSCQPRSPA RAGRPPRSWR TVALYSPVTF GGLSSSLEVA GDRQTPTKGE GRPAPTGTRE PEPGEVAVMK AVPQPQSEEG DVQAEGQDGQ EQPPREDPDS VAAMQSEPGS EEPPPAVEMA QDPSDVAASR DRASPQSTEQ DKERLRFQFL EQKYGYYHCK DCNIRWESAY VWCVQGTSKV YFKQFCRVCE KSYNPYRVED ITCQSCKRTR CACPVRLRHV DPKRPHRQDL CGRCKDKRLS CDSTFSFKYI I
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	40,357 Da
Sequence Positions	1-361, 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 Q7TSX9
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Zar1 recombinant protein	MBS1330254 is a recombinant protein targeting Zar1. Also known as Recombinant Rat Zygote arrest protein 1 (Zar1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Zar1 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 Zar1. It may not necessarily be applicable to this product.

NCBI GI #	31077106
NCBI GeneID	353228
NCBI Accession #	NP_852050.1
UniProt Primary Accession #	Q7TSX9

UniProt Related Accession #	Q7TSX9
GenBank Nucleotide #	NM_181385.2
NCBI Official Full Name	zygote arrest protein 1
NCBI Official Synonym Full Names	zygote arrest 1
NCBI Official Symbol	Zar1
UniProt Protein Name	Zygote arrest protein 1
UniProt Synonym Protein Names	Oocyte-specific maternal effect factor
Protein Family	Receptor protein kinase-like protein
UniProt Gene Name	Zar1
NCBI Protein Information	zygote arrest protein 1
NCBI Summary for Zar1	may be involved in transition from oocyte to embryo [RGD, Feb 2006]
UniProt Comments for Zar1	Essential for female fertility. May play a role in the oocyte-to-embryo transition ().
Research Articles on Zar1	**1.** The carboxyl-termini of these ZAR1 proteins contain an important functional domain that is conserved through vertebrate evolution and that may be necessary for normal female reproduction in the transition from oocyte to embryonic life.
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