Synembryn-A (RIC8A) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Synembryn-A (Ric8a), Recombinant Protein
Full Product Name	Recombinant Mouse Synembryn-A (Ric8a)
Product Gene Name	Ric8a recombinant protein
Product Synonym Gene Name	Ric8a
Sequence	MEPRAVADAL ETGEEDAVTE ALRSFNREHS QSFTFDDAQQ EDRKRLAKLL VSVLEQGLSP KHRVTWLQTI RILSRDRSCL DSFASRQSLH ALACYADITV SEEPIPQSPD MDVLLESLKC LCNLVLSSPT AQMLAAEARL VVRLAERVGL YRKRSYPHEV QFFDLRLLFL LTALRTDVRQ QLFQELHGVR LLTDALELTL GVAPKENPPV MLPAQETERA MEILKVLFNI TFDSVKREVD EEDAALYRYL GTLLRHCVMV EAAGDRTEEF HGHTVNLLGN LPLKCLDVLL ALELHEGSLE FMGVNMDVIS ALLAFLEKRL HQTHRLKECV APVLNVLTEC ARMHRPARKF LKAQVLPPLR DVRTRPEVGD LLRNKLVRLM THLDTDVKRV AAEFLFVLCS ESVPRFIKYT GYGNAAGLLA ARGLMAGGRP EGQYSEDEDT DTEEYREAKA SINPVTGRVE EKPPNPMEGM TEEQKEHEAM KLVNMFDKLS RHRVIQPMGM SPRGHLTSLQ DAMCETMEGQ LSSDPDSDPD
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	59,847 Da
Sequence Positions	1-530, 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 Q3TIR3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ric8a recombinant protein	MBS1435125 is a recombinant protein targeting Ric8a. Also known as Recombinant Mouse Synembryn-A (Ric8a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ric8a 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 Ric8a. It may not necessarily be applicable to this product.

NCBI GI #	16716495
NCBI GeneID	101489
NCBI Accession #	NP_444424.1

UniProt Primary Accession #	Q3TIR3
UniProt Secondary Accession #	Q3TEY3; Q99JW0; Q9ERR6
UniProt Related Accession #	Q3TIR3
GenBank Nucleotide #	NM_053194.4
NCBI Official Full Name	synembryn-A
NCBI Official Synonym Full Names	RIC8 guanine nucleotide exchange factor A
NCBI Official Symbol	Ric8a
NCBI Official Synonym Symbols	Ric8; RIC-8; AI114950
UniProt Protein Name	Synembryn-A
UniProt Synonym Protein Names	Protein Ric-8A
Protein Family	Synembryn
UniProt Gene Name	Ric8a
UniProt Synonym Gene Names	Ric8
NCBI Protein Information	synembryn-A
UniProt Comments for Ric8a	Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex. Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation ().
Research Articles on Ric8a	**1.** found that RIC8A plays an important role in the organisation and remodelling of actin cytoskeleton and cell-extracellular matrix association
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