E3 Ubiquitin-Protein Ligase Rpm-1 (rpm-1) Caenorhabditis Elegans Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase rpm-1 (rpm-1), Recombinant Protein
Full Product Name	Recombinant Caenorhabditis elegans E3 ubiquitin-protein ligase rpm-1 (rpm-1), partial
Product Gene Name	rpm-1 recombinant protein
Product Synonym Gene Name	rpm-1
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	418,058 Da
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 Q17551
Species	Caenorhabditis elegans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rpm-1 recombinant protein	MBS1455869 is a recombinant protein targeting rpm-1. Also known as Recombinant Caenorhabditis elegans E3 ubiquitin-protein ligase rpm-1 (rpm-1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rpm-1 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 rpm-1. It may not necessarily be applicable to this product.

NCBI GI #	17563242
NCBI GeneID	179259
NCBI Accession #	NP_505267.1
UniProt Primary Accession #	Q17551
UniProt Related Accession #	Q17551
GenBank Nucleotide #	NM_072866.3
NCBI Official Full Name	E3 ubiquitin-protein ligase rpm-1
NCBI Official Symbol	rpm-1
UniProt Protein Name	E3 ubiquitin-protein ligase rpm-1

UniProt Synonym Protein Names	Pam/highwire/rpm-1 protein; RING-type E3 ubiquitin transferase rpm-1Curated; Regulator of presynaptic morphology protein 1; Synapse defective protein 3
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	rpm-1
NCBI Protein Information	E3 ubiquitin-protein ligase rpm-1
UniProt Comments for rpm-1	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins, including dlk-1 (PubMed:10839353, PubMed:15707898). Negatively regulates a p38 MAP kinase pathway composed of dlk-1, mkk-4, and pmk-3 that functions presynaptically to regulate synaptic architecture (PubMed:15707898). Has a role during synaptogenesis; regulates neuronal morphology, specifically presynaptic differentiation. May regulate the spatial arrangement of presynaptic terminals or restrict their development (PubMed:10839354, PubMed:15208641, PubMed:15707898, PubMed:21968191). By targeting both dlk-1 and mlk-1 for degradation, may negatively regulate mlk-1/mek-1/kgb-1 and dlk-1/mkk-4/pmk-3 pathways which are involved in axon regeneration after injury (PubMed:21670305). Regulates axon termination in PLM and ALM neurons (PubMed:21968191). May play a role in the formation of muscle connections between the body wall and the motor axons in the dorsal and ventral cord (PubMed:27123983).
Research Articles on rpm-1	**1.** The findings provide insight into how growth cone collapse is regulated during axon termination in vivo, and suggest that RPM-1 signaling destabilizes microtubules to facilitate growth cone collapse and axon termination.
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