Spastin (spas) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Spastin (spas), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Spastin (spas), partial
Product Gene Name	spas recombinant protein
Product Synonym Gene Name	spas
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	82,749 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 Q8I0P1
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for spas recombinant protein	MBS7057117 is a recombinant protein targeting spas. Also known as Recombinant Drosophila melanogaster Spastin (spas), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of spas 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 spas. It may not necessarily be applicable to this product.

NCBI GI #	939620306
NCBI GeneID	42846
NCBI Accession #	NP_001303438.1
UniProt Primary Accession #	Q8I0P1
UniProt Secondary Accession #	Q8IMX5; Q8T066
UniProt Related Accession #	Q8I0P1
GenBank Nucleotide #	NM_001316509.1
NCBI Official Full Name	spastin, isoform E
NCBI Official Synonym Full Names	spastin

NCBI Official Symbol	spas
NCBI Official Synonym Symbols	CG5977; D-spastin; DmelCG5977; Dspastin; Spas; Spastin
UniProt Protein Name	Spastin
UniProt Synonym Protein Names	D-Spastin; Dm-Spastin; Dspastin
Protein Family	Lantibiotic subtilin
UniProt Gene Name	spas
NCBI Protein Information	CG5977 gene product from transcript CG5977-RD
UniProt Comments for spas	ATP-dependent microtubule severing protein. Stimulates microtubule minus-end depolymerization and poleward microtubule flux in the mitotic spindle (PubMed:15242610, PubMed:15562320, PubMed:15823537, PubMed:16276413, PubMed:17452528, PubMed:25875445, PubMed:18202664, PubMed:19341724). Regulates microtubule stability in the neuromuscular junction synapse (PubMed:15242610, PubMed:15562320, PubMed:19341724). Involved in lipid metabolism by regulating the size and distribution of lipid droplets (PubMed:25875445). Involved in axon regeneration by regulating microtubule severing (PubMed:23122959).
Research Articles on spas	**1.** targeting sequence directs spastin to the surface of lipid droplets. Depletion of the homologous spastin proteins in both flies and worms affects lipid droplet number and triacylglycerol content.
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