Probable Histone-Binding Protein Lin-53 (lin-53) Caenorhabditis Elegans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable histone-binding protein lin-53 (lin-53), Recombinant Protein
Full Product Name	Recombinant Caenorhabditis elegans Probable histone-binding protein lin-53 (lin-53)
Product Gene Name	lin-53 recombinant protein
Sequence	MATLEDGTSE DRVANDEYKI WKKNTPFLYD LVMTHALEWP SLSVQWLPDV AKDNSDHTIH RLILGTHTSD EQNHLLISKI CMPTDDAQFD ASRYDTERSE YGGFGAVNGK VEPDIRINHE GEVNRARYMP QKSNIIATKS PHADVYIFDY LKHSAVPRDN TFNPLIRLKG HTKEGYGLSW NPNKEGLILS ASDDQTVCHW DINANQNVAG ELQAKDVFKG HESVVEDVAW HVLHDGVFGS VGDDKKLLIW DVRTSTPGHC IDAHSAEVNC LAFNPYSEFI LATGSADKTV ALWDLRNLRM KLHSFESHRD EIFQVQWSPH NETILASSGT DKRLHVWDLS KIGEDQSAED AEDGPPELLF IHGGHTAKIS DFSWNPNEPW VVCSVSEDNI LQVWQMADNI YNEVDEETPA DVVERQQ
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	47,166 Da
Sequence Positions	1-417, Full length
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 P90916
Species	Caenorhabditis elegans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for lin-53 recombinant protein	MBS1247306 is a recombinant protein targeting lin-53. Also known as Recombinant Caenorhabditis elegans Probable histone-binding protein lin-53 (lin-53). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of lin-53 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 lin-53. It may not necessarily be applicable to this product.

NCBI GI #	17508127
NCBI GeneID	172802
NCBI Accession #	NP_492552.1
UniProt Primary Accession #	P90916

UniProt Secondary Accession #	O62411; A2JDY3
UniProt Related Accession #	P90916
GenBank Nucleotide #	NM_060151.6
NCBI Official Full Name	Probable histone-binding protein lin-53
NCBI Official Symbol	lin-53
UniProt Protein Name	Probable histone-binding protein lin-53
UniProt Synonym Protein Names	Abnormal cell lineage protein 53; Synthetic multivulva protein p48
Protein Family	Probable histone-binding protein
UniProt Gene Name	lin-53
NCBI Protein Information	Probable histone-binding protein lin-53
UniProt Comments for lin-53	Core histone-binding subunit that may target chromatin assembly factors, chromatin remodeling factors and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA (). Required for hcp-3 and his-1 stabilization, localization of hcp-3 to centromeres and for proper chromosome segregation (PubMed:26904949). Synthetic multivulva class B (synMuvB) protein (PubMed:9875852). SynMuvB proteins are required to repress the induction of vulval development by Ras signaling and probably act by forming the multiprotein DRM complex that represses transcription (PubMed:9875852, PubMed:10704416, PubMed:17075059).
Research Articles on lin-53	**1.** RbAp46/48LIN-53 localizes to the centromere during metaphase in a CENP-AHCP-3- and M18BP1KNL-2-dependent manner, suggesting CENP-AHCP-3 loading may occur before anaphase.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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