Serine/Threonine-Protein Phosphatase Alpha-2 Isoform (PP1-87B) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein phosphatase alpha-2 isoform (Pp1-87B), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Serine/threonine-protein phosphatase alpha-2 isoform (Pp1-87B)
Product Gene Name	Pp1-87B recombinant protein
Sequence	MGDVMNIDSI ISRLLEVRGA RPGKNVQLSE GEIRGLCLKS REIFLSQPIL LELEAPLKIC GDIHGQYYDL LRLFEYGGFP PESNYLFLGD YVDRGKQSLE TICLLLAYKI KYSENFFLLR GNHECASINR IYGFYDECKR RYSIKLWKTF TDCFNCLPVA AIVDEKIFCC HGGLSPDLTS MEQIRRIMRP TDVPDQGLLC DLLWSDPDKD TMGWGENDRG VSFTFGAEVV AKFLQKHEFD LICRAHQVVE DGYEFFAKRM LVTLFSAPNY CGEFDNAGAM MSVDDTLMCS FQILKPADKR KK
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	34,542 Da
Sequence Positions	1-302, 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 P12982
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Pp1-87B recombinant protein	MBS1216033 is a recombinant protein targeting Pp1-87B. Also known as Recombinant Drosophila melanogaster Serine/threonine-protein phosphatase alpha-2 isoform (Pp1-87B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Pp1-87B 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 Pp1-87B. It may not necessarily be applicable to this product.

NCBI GI #	17933740
NCBI GeneID	49260
NCBI Accession #	NP_524937.1
UniProt Primary Accession #	P12982

UniProt Secondary Accession #	Q4PIY5; Q9VG75
UniProt Related Accession #	P12982
GenBank Nucleotide #	NM_080198.3
NCBI Official Full Name	protein phosphatase 1 at 87B
NCBI Official Synonym Full Names	Protein phosphatase 1 at 87B
NCBI Official Symbol	Pp1-87B
NCBI Official Synonym Symbols	87B; CG5650; ck19; DmelCG5650; DmPp1-87B; dPP1beta; l(3)87Bg; l(3)ck19; l(3)j6E7; Pp-1alpha; PP-1alpha; Pp1; PP1; PP1 87B; PP1 beta87b; pp1-87B; PP1-87B; Pp1-87Bb; PP187B; PP1A87B; Pp1alpha-87B; PP1alpha-87B; PP1alpha87B; PP1alpha[[2]]; PP1B; PP1c; PP1c 8
UniProt Protein Name	Serine/threonine-protein phosphatase alpha-2 isoform
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	Pp1-87B
NCBI Protein Information	CG5650 gene product from transcript CG5650-RA
UniProt Comments for Pp1-87B	Is essential for the regulation of mitotic chromosomal segregation as well as regulation of chromatin condensation during interphase.
Research Articles on Pp1-87B	**1.** Here the authors show in vitro and in Drosophila that Protein Phosphatase 1 (PP1) inactivates Mps1 by dephosphorylating its T-loop. PP1-mediated dephosphorylation of Mps1 occurs at kinetochores and in the cytosol, and inactivation of both pools of Mps1 during metaphase is essential to ensure prompt and efficient Spindle Assembly Checkpoint silencing.
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