DNA Repair and Recombination Protein Pif1, Mitochondrial (pif1) Schizosaccharomyces Pombe Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA repair and recombination protein pif1, mitochondrial (pif1), Recombinant Protein
Full Product Name	Recombinant Schizosaccharomyces pombe DNA repair and recombination protein pif1, mitochondrial (pif1)
Product Gene Name	pif1 recombinant protein
Product Synonym Gene Name	pif1
Sequence	QQKSSLLHTQ NESSHQPSLN KLGGFSSASL NFNSSRSSTN DDQQTFSSQS DNLPSSPITL PAKRGRSAAS LKQLDNTVGF DVSKPSLPVF ENSGLGSKYS TEIANGVYID ENDFDDDLLL ENDIDQKPIP WSSSPIEHTK LTKSMLSSEK RSKNHLSKIY EDHTSEKGAS SVISSNITRQ GIKRSRTLPW AVDPYRYGDP DPKRTSTSAD ISQHTVSNDS SNKLSNGRSS SLDSLAKKRM SKSKSTPQIS KKFSVPLNSA SKSPIGSSLF KTSDSRKKSV PSIFLSDEQK RILDMVVEQQ HSIFFTGSAG TGKSVLLRKI IEVLKSKYRK QSDRVAVTAS TGLAACNIGG VTLHSFAGVG LARESVDLLV SKIKKNKKCV NRWLRTRVLI IDEVSMVDAE LMDKLEEVAR VIRKDSKPFG GIQLVLTGDF FQLPPVPENG KESKFCFESQ TWKSALDFTI GLTHVFRQKD EEFVKMLNEL RLGKLSDESV RKFKVLNRTI EYEDGLLPTE LFPTRYEVER SNDMRMQQIN QNPVTFTAID SGTVRDKEFR DRLLQGCMAP ATLVLKVNAQ VMLIKNIDDQ LVNGSLGKVI GFIDDETYQM EKKDAEMQGR NAFEYDSLDI SPFDLPDVKQ KKYKLIAMRK ASSTAIKWPL VRFKLPNGGE RTIVVQRETW NIELPNGEVQ ASRSQIPLIL AYAISIHKAQ GQTLDRVKVD LGRVFEKGQA YVALSRATTQ EGLQVLNFSP AKVMAHPKVV QFYKQLASVN GLPIRNENKA PVQMRGVKNK
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	87,606 Da
Sequence Positions	26-805, 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 Q9UUA2
Species	Schizosaccharomyces pombe (strain 972 / 24843) (Fission yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pif1 recombinant protein	MBS1314643 is a recombinant protein targeting pif1. Also known as Recombinant Schizosaccharomyces pombe DNA repair and recombination protein pif1, mitochondrial (pif1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pif1 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 pif1. It may not necessarily be applicable to this product.

NCBI GI #	19113280
NCBI GeneID	2541213
NCBI Accession #	NP_596488.1
UniProt Primary Accession #	Q9UUA2
UniProt Secondary Accession #	O74239
GenBank Nucleotide #	NM_001022408.2
NCBI Official Full Name	DNA repair and recombination protein
NCBI Official Symbol	pfh1
UniProt Protein Name	ATP-dependent DNA helicase pfh1
UniProt Synonym Protein Names	DNA repair and recombination helicase pfh1; PIF1 helicase homolog; RRM3/PIF1 homolog 1
Protein Family	ATP-dependent DNA helicase
UniProt Gene Name	pfh1
UniProt Synonym Gene Names	pif1; rph1
NCBI Protein Information	DNA repair and recombination protein
UniProt Comments for pif1	DNA-dependent ATPase and 5'-3' DNA helicase required for the maintenance of both mitochondrial and nuclear genome stability. Involved in the maintenance of mitochondrial (mtDNA). Required for both repair of mitochondrial DNA and recognition of a recombinogenic signal characterized by a 26-bp palindromic at sequence in the ery region of mitochondrial DNA. May have a general role in chromosomal replication by affecting Okazaki fragment maturation. Required for the completion of S-phase.
Research Articles on pif1	**1.** The nuclear isoform of Pfh1 (nPfh1) unwound both types of structure, and although the G4-stabilizing compound Phen-DC3 significantly enhanced their stability, nPfh1 still resolved them efficiently
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