RNA Polymerase II Subunit A C-Terminal Domain Phosphatase (fcp1) Schizosaccharomyces Pombe Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA polymerase II subunit A C-terminal domain phosphatase (fcp1), Recombinant Protein
Full Product Name	Recombinant Schizosaccharomyces pombe RNA polymerase II subunit A C-terminal domain phosphatase (fcp1), partial
Product Gene Name	fcp1 recombinant protein
Product Synonym Gene Name	fcp1
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	81,965 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 Q9P376
Species	Schizosaccharomyces pombe (strain 972 / 24843) (Fission yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for fcp1 recombinant protein	MBS1316726 is a recombinant protein targeting fcp1. Also known as Recombinant Schizosaccharomyces pombe RNA polymerase II subunit A C-terminal domain phosphatase (fcp1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fcp1 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 fcp1. It may not necessarily be applicable to this product.

NCBI GI #	19115680
NCBI GeneID	2542225
NCBI Accession #	NP_594768.1
UniProt Primary Accession #	Q9P376
GenBank Nucleotide #	NM_001020195.2
NCBI Official Full Name	CTD phosphatase Fcp1
NCBI Official Symbol	fcp1

UniProt Protein Name	RNA polymerase II subunit A C-terminal domain phosphatase
UniProt Synonym Protein Names	CTD phosphatase fcp1
Protein Family	RNA polymerase II subunit A C-terminal domain phosphatase
UniProt Gene Name	fcp1
NCBI Protein Information	CTD phosphatase Fcp1
UniProt Comments for fcp1	Processively dephosphorylates 'Ser-2' and 'Ser-5' of the heptad repeats YSPTSPS in the C-terminal domain of the largest RNA polymerase II subunit. This promotes the activity of RNA polymerase II.
Research Articles on fcp1	**1.** Results from genetic analysis of FCP1 protein identify the structural elements involved in its essentiality, its catalytic action, and Arg271 as a governor of Pol2 versus Spt5 CTD substrate preference.
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