DNA-Directed RNA Polymerase II Subunit Rpb4 (polr2d) Dictyostelium Discoideum Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA-directed RNA polymerase II subunit rpb4 (polr2d), Recombinant Protein
Full Product Name	Recombinant Dictyostelium discoideum DNA-directed RNA polymerase II subunit rpb4 (polr2d)
Product Gene Name	polr2d recombinant protein
Product Synonym Gene Name	polr2d
Sequence	MTDPLIKRSG IQEEEDLTTL KFPRDLKDAK FLLNSEVAIL LEHRKGISES EGTEFPQNTL LIHLYYNSIN DIIRTFHKTL AYAEKFSRYK NKTSIKQVRT ALSKQNLEEF EIASLANLCP EISDEAKSLI PSLKKMEDDE LQAILDELSN LRKFN
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	17,889 Da
Sequence Positions	1-155, 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 Q54S04
Species	Dictyostelium discoideum (Slime mold)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for polr2d recombinant protein	MBS1410155 is a recombinant protein targeting polr2d. Also known as Recombinant Dictyostelium discoideum DNA-directed RNA polymerase II subunit rpb4 (polr2d). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of polr2d 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 polr2d. It may not necessarily be applicable to this product.

NCBI GI #	66812112
NCBI GeneID	8623774
NCBI Accession #	XP_640235.1
UniProt Primary Accession #	Q54S04
GenBank Nucleotide #	XM_635143.1

NCBI Official Full Name	DNA-directed RNA polymerase II subunit 4
NCBI Official Symbol	rpb4
UniProt Protein Name	DNA-directed RNA polymerase II subunit rpb4
UniProt Synonym Protein Names	DNA-directed RNA polymerase II subunit D
UniProt Gene Name	polr2d
UniProt Synonym Gene Names	rpb4; RNA polymerase II subunit B4
NCBI Protein Information	DNA-directed RNA polymerase II subunit 4
UniProt Comments for polr2d	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Component of RNA polymerase II which synthesizes mRNA precursors and many functional non-coding RNAs. Pol II is the central component of the basal RNA polymerase II transcription machinery. It is composed of mobile elements that move relative to each other. RPB4 is part of a subcomplex with RPB7 that binds to a pocket formed by RPB1, RPB2 and RPB6 at the base of the clamp element. The RBP4-RPB7 subcomplex seems to lock the clamp via RPB7 in the closed conformation thus preventing double-stranded DNA to enter the active site cleft. The RPB4-RPB7 subcomplex binds single-stranded DNA and RNA ().
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