DNA-Directed RNA Polymerase III Subunit RPC5 (POLR3E) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA-directed RNA polymerase III subunit RPC5 (POLR3E), Recombinant Protein
Full Product Name	Recombinant Human DNA-directed RNA polymerase III subunit RPC5 (POLR3E)
Product Gene Name	POLR3E recombinant protein
Product Synonym Gene Name	POLR3E
Sequence	MANEEDDPVV QEIDVYLAKS LAEKLYLFQY PVRPASMTYD DIPHLSAKIK PKQQKVELEM AIDTLNPNYC RSKGEQIALN VDGACADETS TYSSKLMDKQ TFCSSQTTSN TSRYAAALYR QGELHLTPLH GILQLRPSFS YLDKADAKHR EREAANEAGD SSQDEAEDDV KQITVRFSRP ESEQARQRRV QSYEFLQKKH AEEPWVHLHY YGLRDSRSEH ERQYLLCPGS SGVENTELVK SPSEYLMMLM PPSQEEEKDK PVAPSNVLSM AQLRTLPLAD QIKILMKNVK VMPFANLMSL LGPSIDSVAV LRGIQKVAML VQGNWVVKSD ILYPKDSSSP HSGVPAEVLC RGRDFVMWKF TQSRWVVRKE VATVTKLCAE DVKDFLEHMA VVRINKGWEF ILPYDGEFIK KHPDVVQRQH MLWTGIQAKL EKVYNLVKET MPKKPDAQSG PAGLVCGDQR IQVAKTKAQQ NHALLERELQ RRKEQLRVPA VPPGVRIKEE PVSEEGEEDE EQEAEEEPMD TSPSGLHSKL ANGLPLGRAA GTDSFNGHPP QGCASTPVAR ELKAFVEATF QRQFVLTLSE LKRLFNLHLA SLPPGHTLFS GISDRMLQDT VLAAGCKQIL VPFPPQTAAS PDEQKVFALW ESGDMSDQHR QVLLEIFSKN YRVRRNMIQS RLTQECGEDL SKQEVDKVLK DCCVSYGGMW YLKGTVQS
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	75,758 Da
Sequence Positions	1-708, 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.
OMIM	617815
3D Structure	ModBase 3D Structure for Q9NVU0
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for POLR3E recombinant protein	MBS1337090 is a recombinant protein targeting POLR3E. Also known as Recombinant Human DNA-directed RNA polymerase III subunit RPC5 (POLR3E). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of POLR3E 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 POLR3E. It may not necessarily be applicable to this product.

NCBI GI #	384475535
NCBI GeneID	55718
NCBI Accession #	NP_001244962.1
UniProt Primary Accession #	Q9NVU0
UniProt Secondary Accession #	Q9BWF7; Q9H8W8; Q9H907; Q9P276; B4DL24; B4DUP6; H3BT11
UniProt Related Accession #	Q9NVU0
GenBank Nucleotide #	NM_001258033.1
NCBI Official Full Name	DNA-directed RNA polymerase III subunit RPC5 isoform 2
NCBI Official Synonym Full Names	RNA polymerase III subunit E
NCBI Official Symbol	POLR3E
NCBI Official Synonym Symbols	SIN; RPC5
UniProt Protein Name	DNA-directed RNA polymerase III subunit RPC5
UniProt Synonym Protein Names	DNA-directed RNA polymerase III 80 kDa polypeptide
Protein Family	DNA-directed RNA polymerase
UniProt Gene Name	POLR3E
UniProt Synonym Gene Names	KIAA1452; RNA polymerase III subunit C5
NCBI Protein Information	DNA-directed RNA polymerase III subunit RPC5
UniProt Comments for POLR3E	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Essential for efficient transcription from both the type 2 VAI and type 3 U6 RNA polymerase III promoters. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway ().
Research Articles on POLR3E	**1.** Data describe the purification and identification of RNA polymerase III subunits RPC2 and RPC5.
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