

DNA-directed RNA polymerase III subunit RPC1 Recombinant Protein | POLR3A recombinant protein

Recombinant Human DNA-directed RNA polymerase III subunit RPC1

CATALOG # AAA115167	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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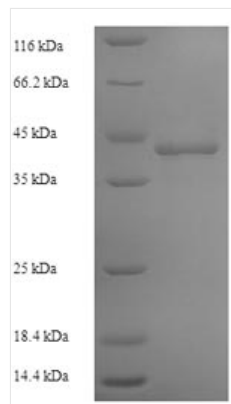
PRODUCT SYNONYMS

DNA-directed RNA polymerase III subunit RPC1; Recombinant Human DNA-directed RNA polymerase III subunit RPC1; DNA-directed RNA polymerase III largest subunitDNA-directed RNA polymerase III subunit ARNA polymerase III 155 kDa subunit; RPC155RNA polymerase III subunit C160; POLR3A recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	392-632aa; Partial
Sequence	FPEKVNKANI NFLRKLQNG PEVHPGANFI QQRHTQMKRF LKYGNREKMA QELKYGDIVE RHLIDGDVVL FNRQPSLHKL SIMAHLARVK PHRTFRFNEC VCTPYNADFD GDEMNLHLPQ TEEAKAEALV LMGTKANLVT PRNGEPLIAA IQDFLTGAYL LTLKDTFFDR AKACQIASI LVGKDEKIV RLPPTILKP VTLWTGKQIF SVILRPSSDN PVRANLRKKG KQYCGKGEDL C
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for POLR3A recombinant protein	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Forms the polymerase active center together with the second largest subunit. A single-stranded DNA template strand of the promoter is positioned within the central active site cleft of Pol III. A bridging helix anates from RPC1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol III by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition. 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.
Product Categories/Family for POLR3A recombinant protein	Epigenetics and Nuclear Signaling
References	The largest subunit of human RNA polymerase III is closely related to the largest subunit of yeast and trypanosome RNA polymerase III.Sepehri S., Hernandez N.Genome Res. 7:1006-1019(1997) The DNA sequence and comparative analysis of human chromosome 10.Deloukas P., Earthrowl M.E., Grafham D.V., Rubenfield M., French L., Steward C.A., Sims S.K., Jones M.C., Searle S., Scott C., Howe K., Hunt S.E., Andrews T.D., Gilbert J.G.R., Swarbreck D., Ashurst J.L., Taylor A., Battles J., Bird C.P., Ainscough R., Almeida J.P., Ashwell R.I.S., Ambrose K.D., Babbage A.K., Bagguley C.L., Bailey J., Banerjee R., Bates K., Beasley H., Bray-Allen S., Brown A.J., Brown J.Y., Burford D.C., Burrill W., Burton J., Cahill P., Camire D., Carter N.P., Chapman J.C., Clark S.Y., Clarke G., Clee C.M., Clegg S., Corby N., Coulson A., Dhami P., Dutta I., Dunn M., Faulkner L., Frankish A., Frankland J.A., Garner P., Garnett J., Gribble S., Griffiths C., Grocock R., Gustafson E., Hammond S., Harley J.L., Hart E., Heath P.D., Ho T.P., Hopkins B., Horne J., Howden P.J., Huckle E., Hynds C., Johnson C., Johnson D., Kana A., Kay M., Kimberley A.M., Kershaw J.K., Kokkinaki M., Laird G.K., Lawlor S., Lee H.M., Leongamornlert D.A., Laird G., Lloyd C., Lloyd D.M., Loveland J., Lovell J., McLaren S., McLay K.E., McMurray A., Mashreghi-Mohammadi M., Matthews L., Milne S., Nickerson T., Nguyen M., Overton-Larty E., Palmer S.A., Pearce A.V., Peck A.I., Pelan S., Phillimore B., Porter K., Rice C.M., Rogosin A., Ross M.T., Sarafidou T., Sehra H.K., Shownkeen R., Skuce C.D., Smith M., Standing L., Sycamore N., Tester J., Thorpe A., Torcasso W., Tracey A., Tromans A., Tsolas J., Wall M., Walsh J., Wang H., Weinstock K., West A.P., Willey D.L., Whitehead S.L., Wilming L., Wray P.W., Young L., Chen Y., Lovering R.C., Moschonas N.K., Siebert R., Fechtel K., Bentley D., Durbin R.M., Hubbard T., Doucette-Stamm L., Beck S., Smith D.R., Rogers J.Nature 429:375-381(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	39725938
NCBI GeneID	11128
NCBI Accession #	NP_008986.2
NCBI GenBank Nucleotide #	NM_007055.3
UniProt Accession #	O14802; Q8IW34; Q8TCW5
Molecular Weight	43.4 kDa
NCBI Official Full Name	DNA-directed RNA polymerase III subunit RPC1
NCBI Official Synonym Full Names	polymerase (RNA) III (DNA directed) polypeptide A, 155kDa
NCBI Official Symbol	POLR3A
NCBI Official Synonym Symbols	ADDH; HLD7; RPC1; RPC155; hRPC155
NCBI Protein Information	DNA-directed RNA polymerase III subunit RPC1
UniProt Protein Name	DNA-directed RNA polymerase III subunit RPC1
UniProt Gene Name	POLR3A
UniProt Synonym Gene Names	RNA polymerase III subunit C1; RPC155
UniProt Entry Name	RPC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polr3a-recombinant-protein-e-coli/115167>