

Recombinant Human POLR3C Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POLR3C-829H Lot. No. (See product label)

SPECIFICATION

Product Overview	POLR3C MS Standard C13 and N15-labeled recombinant protein (NP_006459) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the subcomplex RNA Pol III binding to the TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. May be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. 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. Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner.
Molecular Mass	60.6 kDa

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AA Sequence	MTQAEIKLCSLLQEHFGEIVEKIGVHLIRTGSQPLRVIAHDTGTSLDQVKKALCVLVQ HNLVSYQVHKRGVVEYEAQCSRVLRLRYPRYIYTTKTLYSDTGELIVEELLNGKLT MSAVVKKVADRLTETMEDGKTMDYAEVSNTFVRLADTHFVQRCPSVPTTENSDPG PPPPAPTLVINEKDMYLVPKLSLIGKGKRRRSSDEDAAGEPKAKRPKYTTDNKEIPD DGIYWQANLDRFHQHFQDQAIVSAVANRMDQTSSEIVRTMLRMSEITTSSSAPFTQP LSSNEIFRSLPVGYNISKQVLDQYLTLADDPLEFVGKSGDSGGGMYVINLHKALASL ATATLESVVQERFGSRCARIFRLVLQKKHIEQKQVEDFAMIPAKEAKDMLYKMLSEN FMSLQEIPKTPDHAPSRTFYLYTVNILSAARMLLHRCYKSANLIERRQFETKENKRLL EKSQRVEAIIASMQATGAEEAQLQEIEEMITAPERQQLETLKRNVNKLDASEIQVDETI FLLESYIECTMKRQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	POLR3C RNA polymerase III subunit C [Homo sapiens (human)]
Official Symbol	POLR3C
Synonyms	POLR3C; polymerase (RNA) III (DNA directed) polypeptide C (62kD); DNA-directed RNA polymerase III subunit RPC3; RPC3; RPC62; RNA polymerase III subunit C3; RNA polymerase III 62 kDa subunit; DNA-directed III 62 kDa polypeptide; DNA-

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directed RNA polymerase III subunit C;

Gene ID 10623

mRNA Refseq NM_006468

Protein Refseq NP_006459

MIM 617454

UniProt ID Q9BUI4

SDS-PAGE



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