

Recombinant Human polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa, His-tagged

Cat. No. POLR2I-389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLR2I, 1-125aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-125 a.a.
Description	POLR2I, also known as RPB9, belongs to the archaeal rpoM/eukaryotic RPA12/RPB9/RPC11 RNA polymerase family. This protein is a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Also it synthesizes mRNA precursors and many functional non-coding RNAs. Recombinant human POLR2I protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	17.0kDa (148aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEPDGTY EPGFVGIRFC QECNNMLYPK EDKENRILLY ACRNCDYQQE ADNSCIYVNK ITHEVDELTQ IADVSQDPT

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LPRTEDHPCQ KCGHKEAVFF QSHSARAEDA MRLYYVCTAP HCGHRWTE

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name POLR2I polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa [Homo sapiens]

Official Symbol POLR2I

Synonyms POLR2I; polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa; polymerase (RNA) II (DNA directed) polypeptide I (14.5kD); DNA-directed RNA polymerase II subunit RPB9; hRPB14.5; RPB9; RPB14.5; RNA polymerase II subunit B9; RNA polymerase II 14.5 kDa subunit; DNA-directed RNA polymerase II subunit I; DNA-directed RNA polymerase II 14.5 kDa polypeptide;

Gene ID 5438

mRNA Refseq NM_006233

Protein Refseq NP_006224

MIM 180662

UniProt ID P36954

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Chromosome Location	19q12
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem;
Function	DNA binding; DNA-directed RNA polymerase activity; metal ion binding; contributes_to protein kinase activity; zinc ion binding;

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