

Recombinant Human POLR2E, His-tagged

Cat. No. POLR2E-7061H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLR2E protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-210aa
Description	POLR2E, also as known as DNA-directed RNA polymerases I, II, and III subunit RPABC1, belongs to the archaeal RpoH/eukaryotic RPB5 RNA polymerase subunit family. POLR2E is the fifth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This subunit is shared by the other two DNA-directed RNA polymerases and is present in two-fold molar excess over the other polymerase subunits. POLR2E is a DNA-dependent RNA polymerase that catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	27.1kDa (233aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDDDEET YRLWKIRKTI MQLCHDRGYL VTQDELDQTL EEFKAQFGDK PSEGRPRRTD LTVLVAHNDD PTDQMVFVFP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EEPKVGIKTI KVYCQRMQEE NITRALIVVQ QGMTPSAKQS LVDMPKYIL
EQFLQQELLI NITEHELVPE HVVMTKEEVT ELLARYKLRE NQLPRIQAGD
PVARYFGIKR GQVVKIIRPS ETAGRYITYR LVQ

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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

Concentration 1 mg/ml

GENE INFORMATION

Gene Name POLR2E polymerase (RNA) II (DNA directed) polypeptide E, 25kDa [Homo sapiens]

Official Symbol POLR2E

Synonyms POLR2E; polymerase (RNA) II (DNA directed) polypeptide E, 25kDa; polymerase (RNA) II (DNA directed) polypeptide E (25kD); DNA-directed RNA polymerases I, II, and III subunit RPABC1; DNA directed RNA polymerase II 23 kda polypeptide; hRPB25; hsRPB5; RPABC1; RPB5; XAP4; RPB5 homolog; DNA-directed RNA polymerase II subunit E; RNA polymerases I, II, and III subunit ABC1; DNA-directed RNA polymerase II 23 kDa polypeptide;

Gene ID 5434

mRNA Refseq NM_002695

Protein Refseq NP_002686

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	180664
UniProt ID	P19388
Chromosome Location	19p13.3
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved 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;
Function	DNA binding; DNA-directed RNA polymerase activity; protein binding; contributes_to protein kinase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA