

AR50667PU-S

Human POLR2E (1-210, His-tag) - Purified

Alternate names:

DNA-directed RNA polymerase II 23 kDa polypeptide, DNA-directed RNA polymerase II subunit E, DNA-directed RNA polymerases I, II, II, RNA polymerases I, RPABC1, RPB5 homolog, XAP4, and III subunit ABC1, and III subunit RPABC1

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P19388](#)

NCBI:

[NP_002686](#)

GeneID:

[5434](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human POLR2E protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMDDEEET YRLWKIRKTI MQLCHDRGYL VTQDELDQTL
EEFKAQFGDK PSEGRPRRTD LTVLVAHND DPTDQMFVFFP EEPKVGIKTI KVYCQRMQEE
NITRALIVVQ QGMTPSAKQS LVDMAKYIL EQFLQQELLI NITEHELVE HVVMTKEEVT
ELLARYKLRE NQLPRIQAGD PVARYFGIKR GQVVKIIRPS ETAGRYITYR LVQ

Molecular weight: 27.1 kDa (233aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Kershner E., et al. (1998) J. Biol. Chem. 273:34444-34453 Dorjsuren D., et al. (1998) Mol. Cell. Biol. 18:7546-7555

Pictures:

