

Recombinant human RNA polymerases I, II, and III subunit RPABC1/POLR2E protein

Catalog Number: ATGP1843

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-210aa

UniProt No.

P19388

NCBI Accession No.

NP_002686

Alternative Names

RNA polymerases I, II, and III subunit RPABC1/POLR2E protein

PRODUCT SPECIFICATION

Molecular Weight

27 kDa (233aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human POLR2E protein, fused to His-tag at N-terminus,

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was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MDDEEET YRLWKIRKTI MQLCHDRGYL VTQDELDQTL EEFKAQFGDK
PSEGRPRRTD LTVLVAHNDD PTDQMFVFFP EEPKVGIKTI KVYCQRMQEE NITRALIVVQ QGMTPSAKQS LVDMAKYIL
EQFLQQELLI NITEHELVPE HVVMTKEEVT ELLARYKLRE NQLPRIQAGD PVARYFGIKR GQVVKIIRPS ETAGRYITYR LVQ

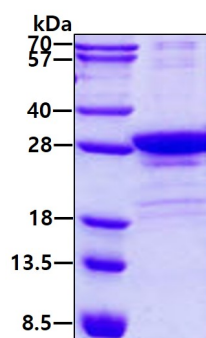
General References

Kershner E., et al. (1998) J. Biol. Chem. 273:34444-34453

Dorjsuren D., et al. (1998) Mol. Cell. Biol. 18:7546-7555

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain