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

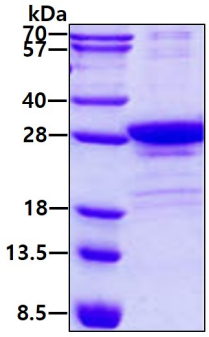
<MGSSHHHHHH SSGLVPRGSH MGS>MDDEEET YRLWKIRKTI MQLCHDRGYL VTQDELDQTL EEFKAQFGDK PSEGRPRRTD LTVLVAHNDD PTDQMFVFFP EEPKVGIKTI KVYCQRMQEE NITRALIVVQ QGMTPSAKQS LVDMAPKYIL EQFLQQELLI NITEHELVPE HVVMTKEEVT ELLARYKLRE NQLPRIQAGD PVARYFGIKR GQVVKIIRPS ETAGRYITYR LVQ

General References

Kershnar 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