POLR2E, 1-210aa, Human, His tag, E.coli

Cat.NO.: TP03460

3th Edition

Synonyms:DNA-directed RNA polymerases I, II, and III subunit RPABC1, hRPB25, hsRPB5, RPABC1, RPB5, XAP4

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

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

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

Sequences:
MGSSHHHHHHSSGLVPRGSHMGSMDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQFGDKPSEG
RPRRTDLTVLVAHNDDPTDQMFVFFPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILE
QFLQQELLINITEHELVPEHVVMTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYR
LVQ

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.