

# Recombinant human RNA polymerase II subunit RPB11-a/POLR2J protein

Catalog Number: ATGP1774

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-117aa

### UniProt No.

P52435

### NCBI Accession No.

NP\_006225

### Alternative Names

DNA-directed RNA polymerase II subunit RPB11-a, hRPB14, POLR2J1, RPB11, RPB11A, RPB11m

## PRODUCT SPECIFICATION

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### Molecular Weight

15.7 kDa (140aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 5mM DTT, and 2mM EDTA

### 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

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### Description

POLR2J is a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This protein exists as a heterodimer with another polymerase subunit; together they form a core subassembly unit of the polymerase. Two similar genes are located nearby on chromosome 7q22. 1 and a pseudogene is found on chromosome 7p13. Recombinant human POLR2J protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MNAPPAF ESLLFEGEK KITINKDTKV PNACLFTINK EDHTLGNIK SLLKDPQVL FAGYKVPHPL EHKKIIRVQT TPDYSPQEAF TNAITDLISE LSLLEERFRV AIKDKQEGIE

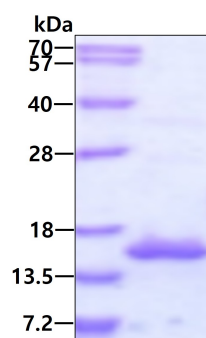
## General References

Proshkin,S.A., et al. (2011) Biochemistry Mosc. 76 (8), 976-980

Shpakovskii,D.G., et al. (2004) Bioorg. Khim. 30 (6), 621-625

## DATA

### SDS-PAGE



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