

Recombinant human RNA polymerase II subunit RPB11-b1/POLR2J2 protein

Catalog Number: ATGP1952

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-115aa

UniProt No.

Q9GZM3

NCBI Accession No.

NP_116581

Alternative Names

DNA-directed RNA polymerase II subunit RPB11-b1, HRPB11B, RPB11b1

PRODUCT SPECIFICATION

Molecular Weight

15.5 kDa (138aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT, 250mM Imidazole

Purity

> 95% 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

POLR2J2 is a member of the RNA polymerase II subunit 11 gene family, which includes three genes in a cluster on chromosome 7q22.1 and a pseudogene on chromosome 7p13. The founding member of family, DNA directed RNA polymerase II polypeptide J, has been shown to encode a subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. This locus produces multiple, alternatively spliced transcripts that potentially express isoforms with distinct C-termini compared to DNA directed RNA polymerase II polypeptide J. Most or all variants are spliced to include additional non-coding exons at the 3' end which makes

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them candidates for nonsense-mediated decay (NMD). Consequently, it is not known if this locus expresses a protein or proteins in vivo. Recombinant human POLR2J2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

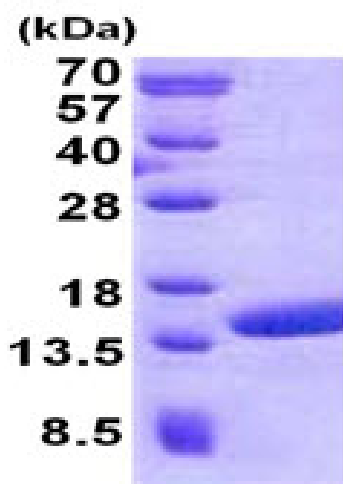
MGSSHHHHHH SSGLVPRGSH MGSMNAPP AF ESLLFEGEK ITINKDTKVP KACLFTINKE DHTLGNIKS QLLKDPQVLF
AGYKVPHPLE HKIIRVQTT PDYSPQEAFT NAITDLISEL SLLEERFRTC LLPLRLLP

General References

Shpakovskii,D.G., et al. (2004) Bioorg. Khim. 30 (6), 621-625
Benga,W.J., et al. (2005) Nucleic Acids Res. 33 (11), 3582-3590

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)