
Product Data Sheet

Product Name: POLR2F Human

Cat. No.: GP22115

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical
Appearance solidShipping
Condition Shipped with Ice Packs.

Synonyms Polymerase (RNA) II (DNA Directed) Polypeptide F; DNA Directed RNA Polymerase II 14.4 Kda Polypeptide; POLRF; RPABC14.4; RPB14.4; RPC15; DNA-Directed RNA Polymerase II Subunit F; DNA-Directed RNA Polymerases I; II; And III 14.4 KDa Polypeptide; RNA Polymerases I; II; And III Subunit ABC2; RPB6 Homolog; HRBP14.4; RPABC2; RPB6; DNA-Directed RNA Polymerases I; II; And III Subunit RPABC2; RNA Polymerase II Subunit 14.4 KD; POLR2F.

Amino Acid
Sequence MGSSHHHHHH SGLVPRGSH MGSMSDNEFN FDGDDFDDVE EDEGLDDLEN
AEEEGQENVE ILPSGERPQA NQKRITTPYM TKYERARVLG TRALQIAMCA
PVMVELEGET DPLLIAMKEL KARKIPIIR RYLPDGSYED WGVDELIITD.

Formulation The POLR2F solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.

Introduction

Polymerase II Polypeptide F (POLR2F) is the 6th largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes, which is also shared by the other two DNA-directed RNA polymerases. In yeast, POLR2F, in combination with at least 2 other subunits, forms a structure which stabilizes the transcribing polymerase on the DNA template. DNA-dependent RNA polymerases catalyze the transcription of DNA into RNA via the 4 ribonucleoside triphosphates as substrates. Pol II is the principal element of the basal RNA polymerase II transcription apparatus. Pols are comprised of mobile elements which move close to each other. In Pol II, POLR2F/RPB6 is part of the clamp element and along with parts of RPB1 and RPB2 constructs a compartment to which the RPB4-RPB7 subcomplex attaches.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

POLR2F Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 150 amino acids (1-127) and having a molecular mass of 16.9kDa (Molecular size on SDS-PAGE will appear higher). POLR2F is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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