

Recombinant human RNA polymerase III subunit RPC8/POLR3H protein

Catalog Number: ATGP1755

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-204aa

UniProt No.

Q9Y535

NCBI Accession No.

NP_612211

Alternative Names

DNA-directed RNA polymerase III subunit RPC8, RPC22.9, RPC8

PRODUCT SPECIFICATION

Molecular Weight

25.3 kDa (227aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/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

POLR3H, also as known as A1665 and RPC8, belongs to the eukaryotic RPB7/RPC8 RNA polymerase subunit family. POLR3H is DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. It plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3H acts as nuclear and cytosolic DNA sensor involved in innate immune response. Recombinant human POLR3H 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

MGSSHHHHHH SSGLVPRGSH MGSMFVLVEM VDTVRIIPWQ FERKLNSIA EELNKKLANK VVYNVGLCIC LFDITKLEDA
YVFPDGDASH TKVHFRCVVF HPFLDEILIG KIKGCSPEGV HVSLGFFDDI LIPPESLQQP AKFDEAEQVW VWEYETEEGA
HDLYMDTGEE IRFRVVDES FVDTSPGTPSS ADATTSSEEL PKKEAPYTLV GSISEPGLGL LSWWTSN

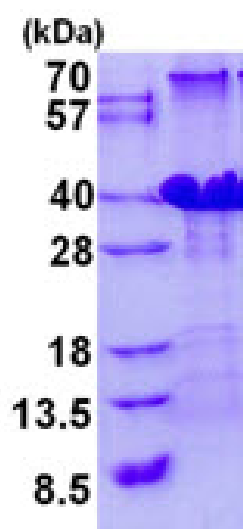
General References

Ablasser A., et al. (2009) Nat. Immunol. 10:1065-1072

Hu P., et al. (2002) Mol. Cell. Biol. 22:8044-8055

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)