

Recombinant Human Polymerase (RNA) III (DNA Directed) Polypeptide H (22.9kD), His-tagged

Cat. No. POLR3H-7187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLR3H protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 25.3kDa.
Species	Human
Source	E.coli
ProteinLength	1-204aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	25.3kDa (227aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMFVLVEM VDTVRIPPWQ FERKLNSIA

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EELNKKLANK VVYNVGLCIC LFDITKLEDA YVFPGDGASH TKVHFRCVVF
 HPFLDEILIG KIKGCSPEGV HVSLGFFDDI LIPPESLQQP AKFDEAEQVW
 VWEYETEEGA HDLYMDTGEE IRFRVVDESF VDTSPTGPSS ADATTSSEEL
 PKKEAPYTLV GSISEPGLGL LSWWTSN

Purity >90% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name POLR3H polymerase (RNA) III (DNA directed) polypeptide H (22.9kD) [Homo sapiens]

Official Symbol POLR3H

Synonyms POLR3H; polymerase (RNA) III (DNA directed) polypeptide H (22.9kD); DNA-directed RNA polymerase III subunit RPC8; KIAA1665; RPC8; RNA polymerase III subunit C8; RNA polymerase III subunit RPC8; DNA-directed RNA polymerase III subunit H; RNA nucleotidyltransferase (DNA-directed); RNA polymerase III subunit 22.9 kDa subunit; DNA-directed RNA polymerase III subunit 22.9 kDa polypeptide; RPC22.9; MGC29654; MGC111097;

Gene ID 171568

mRNA Refseq NM_001018050

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Protein Refseq	NP_001018060
UniProt ID	Q9Y535
Chromosome Location	22q13
Pathway	Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Epstein-Barr virus infection, organism-specific biosystem; Epstein-Barr virus infection, conserved biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	DNA binding; DNA-directed RNA polymerase activity;

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