

Recombinant Human POLR3K, His-tagged

Cat. No. POLR3K-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POLR3K, 1-108aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-108aa
Description	PORL3K is a small essential subunit of RNA polymerase III, the polymerase responsible for synthesizing transfer and small ribosomal RNAs in eukaryotes. The carboxy-terminal domain of this subunit shares a high degree of sequence similarity to the carboxy-terminal domain of an RNA polymerase II elongation factor. This similarity in sequence is supported by functional studies showing that this subunit is required for proper pausing and termination during transcription. Pseudogenes of this gene are found on chromosomes 13 and 17 Recombinant human PORL3K protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 50% glycerol, 2mM DTT, 2mM EDTA
Molecular Mass	14.7kDa (131aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMLLFCPG CGNGLIVEEG QRCHRFACNT CPYVHNITRK VTNRKYPKLK EVDDVLGGAA AWENVNSTAE SCPKCEHPRA

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YFMQLQTRSA DEPMITTFYKC CNAQCGHRWR D

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name POLR3K polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kDa [Homo sapiens]

Official Symbol POLR3K

Synonyms POLR3K; polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kDa; polymerase (RNA) III (DNA directed) polypeptide K (12.3 kDa); DNA-directed RNA polymerase III subunit RPC10; RPC11; RNA polymerase III subunit C10; RNA polymerase III subunit C11; RNA polymerase III subunit CII; RNA polymerase III 12.5 kDa subunit; RNA polymerase III subunit (hRPC11); DNA-directed RNA polymerase III subunit K; DNA-directed RNA polymerases III 12.5 kDa polypeptide; C11; My010; RPC10; hRPC11; RPC12.5; C11-RNP3;

Gene ID 51728

mRNA Refseq NM_016310

Protein Refseq NP_057394

MIM 606007

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UniProt ID	Q9Y2Y1
Chromosome Location	16p13.3
Pathway	Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	DNA binding; DNA-directed RNA polymerase activity; metal ion binding; zinc ion binding;