

Recombinant Human POLR2D, His-tagged

Cat. No. POLR2D-15909H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLR2D protein, fused to His tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-142aa
Description	POLR2D is the fourth largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. In yeast, this polymerase subunit is associated with the polymerase under suboptimal growth conditions and may have a stress protective role. A sequence for a ribosomal pseudogene is contained within the 3' untranslated region of the transcript from this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea 10% glycerol
Molecular Mass	18.7 kDa (165aa)
AA Sequence	MGSSHHHHH SSGLVPRGSH MGSMAGGSD PRAGDVEEDA SQLIFPKEFE TAETLLNSEV HMLLEHRKQQ NESAEDEQEL SEVFMKTLNY TARFSRFGNR ETIASVRSLL LQKKLHKFEL ACLANLCPET AEESKALIPS LEGRFEDEEL QQILDDIQTK RSFQY
Purity	>90% by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	POLR2D polymerase (RNA) II (DNA directed) polypeptide D [Homo sapiens]
Official Symbol	POLR2D
Synonyms	POLR2D; polymerase (RNA) II (DNA directed) polypeptide D; DNA-directed RNA polymerase II subunit RPB4; RBP4; RNA polymerase II subunit hsRBP4; RNA polymerase II subunit B4; RNA polymerase II 16 kDa subunit; DNA-directed RNA polymerase II subunit D; DNA-directed RNA polymerase II 16 kDa polypeptide; RPB16; HSRBP4; HSRPB4;
Gene ID	5433
mRNA Refseq	NM_004805
Protein Refseq	NP_004796
MIM	606017
UniProt ID	O15514
Chromosome Location	2q21

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Pathway

Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem; Formation of RNA Pol II elongation complex, organism-specific biosystem;

Function

DNA-directed RNA polymerase activity; catalytic activity; nucleotide binding; contributes_to protein kinase activity;

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