

Active Recombinant Human POLR2K, GST-tagged

Cat. No. POLR2K-8510H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLR2K,fused with GST tag,was expressed in E. coli.
Species	Human
Source	E.coli
Description	RPB12 (also called RPB10) is shared between all three RNA polymerases and is homologous to the archaeal P subunit of RNA polymerase. Like RPB10, it is essential for yeast cell viability . RPB12 is also a zinc-binding protein with a canonical tetra-coordinating zinc motif but binds zinc in vitro much less efficiently than the RPB10 subunit. It has been shown to interact with both RPB1 and RPB2 in vitro and the human subunit can functionally substitute for its yeast counterpart.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	1 unit equals 1 ng of purified protein. 100 units (ng) are sufficient for a protein-protein interaction assay.
AA Sequence	MDTQKDVQPP KQQPMIYICG ECHTENEIKS RDPIRCRECG YRIMYKKRTK RLVVFDAR
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C

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Concentration	100 µg/ml
Shipping	Dry Ice
GENE INFORMATION	
Gene Name	POLR2K polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa [Homo sapiens]
Official Symbol	POLR2K
Synonyms	POLR2K; polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa; RPB12; RPABC4; RPB7.0; hRPB7.0; hsRPB10a; RPB10alpha; ABC10-alpha; DNA-directed RNA polymerases I, II, and III subunit RPABC4; RNA polymerase II 7.0 kDa subunit; DNA-directed RNA polymerase II subunit K; RNA polymerases I, II, and III subunit ABC4; DNA directed RNA polymerases I, II, and III 7.0 kda polypeptide
Gene ID	5440
mRNA Refseq	NM_005034
Protein Refseq	NP_005025
MIM	606033
UniProt ID	P53803
Chromosome Location	8q22.2
Pathway	Abortive elongation of HIV-1 transcript in the absence of Tat, organism-specific biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; DNA

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Repair, organism-specific biosystem

Function

DNA binding; NA-directed RNA polymerase activity; metal ion binding

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