Recombinant Human POLD4, His-tagged

Cat. No. POLD4-2282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POLD4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	130aa
Description	POLD4 is the smallest subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3" to 5" exonuclease activity and plays a critical role in DNA replication and repair. The protein enhances the activity of DNA polymerase delta and plays a role in fork repair and stabilization through interactions with the DNA helicase Bloom syndrome protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT
Molecular Mass	14.8 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGRKRLI TDSYPVVKRR EGPAGHSKGE LAPELGEEPQ PRDEEEAELE LLRQFDLAWQ YGPCTGITRL QRWCRAKQMG LEPPPEVWQV LKTHPGDPRF QCSLWHLYPL

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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	0.25 mg/ml

GENE INFORMATION

Gene Name	POLD4 polymerase (DNA-directed), delta 4 [Homo sapiens]
Official Symbol	POLD4
Synonyms	POLD4; polymerase (DNA-directed), delta 4; DNA polymerase delta subunit 4; DNA polymerase delta smallest subunit p12; p12; POLDS;
Gene ID	57804
mRNA Refseq	NM_001256870
Protein Refseq	NP_001243799
MIM	611525
UniProt ID	Q9HCU8
Chromosome Location	11q13
Pathway	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-

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	specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Repair, organism-specific biosystem;
Function	DNA-directed DNA polymerase activity; nucleotidyltransferase activity; protein binding; transferase activity;

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