Recombinant Human POLD1, His-tagged

Cat. No. POLD1-28360TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 929-1102 of Human DNA Polymerase delta, catalytic subunit with an N terminal His tag. Predicted MWt: 21 kDa;
Species	Human
Source	E.coli
ProteinLength	929-1102 a.a.
Description	The DNA polymerase delta complex is involved in DNA replication and repair, and it consists of the proliferating cell nuclear antigen (PCNA; MIM 176740), the multisubunit replication factor C (see MIM 102579), and the 4 subunit polymerase complex: POLD1, POLD2 (MIM 600815), POLD3 (MIM 611415), and POLD4 (MIM 611525) (Liu and Warbrick, 2006
Conjugation	HIS
Form	Lyophilised:Reconstitute with 89 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	AAKGVAAYMKSEDPLFVLEHSLPIDTQYYLEQQLAKPLLR IFEPILGEGRAEAVLLRG DHTRCKTVLTGKVGGLLAFA KRRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEV SHL NALEERFSRLWTQCQRCQGSLHEDVICTSRDCPIFYMR KKVRKDLEDQEQLL RRFGPP
Sequence Similarities	Belongs to the DNA polymerase type-B family.

GENE INFORMATION

Gene Name	POLD1 polymerase (DNA directed), delta 1, catalytic subunit 125kDa [Homo sapiens]
Official Symbol	POLD1
Synonyms	POLD1; polymerase (DNA directed), delta 1, catalytic subunit 125kDa; POLD, polymerase (DNA directed), delta 1, catalytic subunit (125kD); DNA polymerase delta catalytic subunit; CDC2; CDC2 homolog (S. cerevisiae);
Gene ID	5424
mRNA Refseq	NM_002691
Protein Refseq	NP_002682
MIM	174761
Uniprot ID	P28340
Chromosome Location	19q13.3

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Pathway	Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem;
Function	3-5-exodeoxyribonuclease activity; DNA binding; DNA-directed DNA polymerase activity; chromatin binding; hydrolase activity;

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