Recombinant Human POLB protein

Cat. No. POLB-621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POLB protein was a repair enzyme used to fill gaps and nicks in double-stranded DNA.
Species	Human
Form	20 mM Tris-HCl (pH 8.0), 0.1 mM EDTA. 200 mM NaCl, 1 mM dithiothreitol, 50% (v/v) glycerol
Unit Definition	One unit is the amount of enzyme required to incorporate 1 pmole of total nucleotide into acid-insoluble form in 60 minutes at 37 centigrade under the stated assay conditions.
Applications	1. Repair polymerase able to synthesize DNA beyond the end of a gap or nick with simultaneous displacement of the non-replicated strand.2. Fills gaps and nicks.
Notes	All preparations are assayed for contaminating endonuclease and exonuclease activities.
Storage	Store at -80 centigrade Long Term;Store at -20 centigrade.

GENE INFORMATION

Gene Name	POLB polymerase (DNA directed), beta [Homo sapiens]
Official Symbol	POLB

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Synonyms	POLB; polymerase (DNA directed), beta; DNA polymerase beta; DNA pol beta; DNA polymerase beta subunit; MGC125976;
Gene ID	5423
mRNA Refseq	NM_002690
Protein Refseq	NP_002681
MIM	174760
UniProt ID	P06746
Chromosome Location	8p12-p11
Pathway	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base Excision Repair, organism-specific biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Base-free sugar-phosphate removal via the single-nucleotide replacement pathway, organism-specific biosystem; DNA Repair, organism-specific biosystem;
Function	DNA-directed DNA polymerase activity; damaged DNA binding; enzyme binding; lyase activity; metal ion binding; microtubule binding; nucleotidyltransferase activity; protein binding; transferase activity;

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