

## DNA polymerase beta Protein, Human (His)

Cat. No.:	HY-P7883
Synonyms:	rHuDNA polymerase beta, His; DNA Polymerase Beta; POLB
Species:	Human
Source:	E. coli
Accession:	P06746 (S2-E335)
Gene ID:	5423
Molecular Weight:	Approximately 39.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> SKRKAPQETL   NGGITDMLTE   LANFEKNVSQ   AIHKYNAYRK AASVIAKYPH   KIKSGAEAKK   LPGVGTKIAE   KIDEFLATGK LRKLEKIRQD   DTSSSINFLT   RVSGIGPSAA   RKFVDEGIKT LEDLRKNEDK   LNHHQRIGLK   YFGDFEKRI P   REEMLQMQDI VLNEVKKVDS   EYIATVCGSF   RRGAESSGDM   DVLLTHPSFT SESTKQPKLL   HQVVEQLQKV   HFITDTLSKG   ETKFMGVCQL PSKNDEKEYP   HRRIDIRLIP   KDQYYCGVLY   FTGSDIFNKN MRAHALEKGF   TINEYTIRPL   GVTGVAGEPL   PVDSEKIDFD YIQWKYREPK   DRSE           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 1 mM EDTA, 50% Glycerol, pH 7.8.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	DNA polymerase beta (POLB) belongs to the DNA polymerase type-X family. The structure of DNA polymerase beta has been resolved and shows two domains, an 8-kDa domain consisting of several helices and a 31-kDa domain consisting of several
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subdomains, the fingers, the thumb, and the palm respectively. It is typically described as a DNA repair enzyme, involved in various types of DNA repair such as Base Excision Repair (BER), Nucleotide Excision Repair (NER), post-replicative Mismatch Repair (MMR), and Double Strand Break Repair (DSBR)<sup>[1]</sup>.

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## REFERENCES

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[1]. DNA Polymerase Beta.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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