

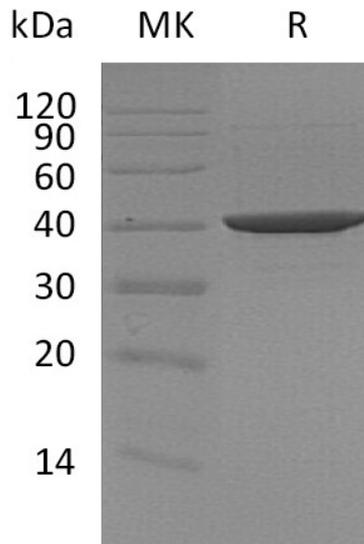
**Product Name: Recombinant Human DNA Polymerase Beta (C-6His)**  
**Catalog #: PEH0539**

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## Summary

<b>Name</b>	DNA Polymerase beta
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/ $\mu$ g as determined by LAL test.
<b>Construction</b>	Recombinant Human DNA Polymerase Beta is produced by our E.coli expression system and the target gene encoding Ser2-Glu335 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P06746
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	39.23 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, 1mM EDTA, 50% Glycerol, pH 7.8.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at $\leq$ -70°C, stable for 6 months after receipt. Store at $\leq$ -70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image



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### **Alternative Names**

DNA Polymerase Beta; POLB

### **Background**

Human DNA polymerase  $\beta$  is constitutively expressed in cells. It fills in gaps in DNA that are formed following base excision repair. Repair polymerase that plays a key role in base-excision repair. Has 5-deoxyribose-5-phosphate lyase (dRP lyase) activity that removes the 5 sugar phosphate and also acts as a DNA polymerase that adds one nucleotide to the 3 end of the arising single-nucleotide gap. It conducts gap-filling DNA synthesis in a stepwise distributive fashion rather than in a processive fashion as for other DNA polymerases. The activity cannot be affected by Aphidicolin, which is an inhibitor of DNA polymerase  $\beta$ .

### **Note**

For Research Use Only , Not for Diagnostic Use.