

# Recombinant Human DNA Polymerase ?/POLB Protein (His Tag)



Catalog Number:PKSH032360

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

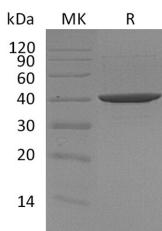
## Description

Synonyms	DNA Polymerase Beta;POLB
Species	Human
Expression Host	E.coli
Sequence	Ser2-Glu335
Accession	P06746
Calculated Molecular Weight	39.2 kDa
Observed molecular weight	39 kDa
Tag	C-His

## Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, 1mM EDTA, 50% Glycerol, pH 7.8.
Reconstitution	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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  $\beta$ .

## For Research Use Only

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Toll-free: 1-888-852-8623

Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017