

## POLB Human

**Description:** POLB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 355 amino acids (1-335 a.a) and having a molecular mass of 40.3kDa. POLB is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-175

For research use only.

**Synonyms:** DNA polymerase beta, POLB.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MSKRKAPQET LGGITDMLT  
ELANFEKNVS QAIHKYNAYR KAASVIKYP HKIKSGAEAK KLPGVGTKIA EKIDEFLATG  
KLRKLEKIRQ DDTSSSINFL TRVSGIGPSA ARKFVDEGIK TLEDLRKNED KLNHHQRIGL  
KYFGDFEKRI PREEMLQMQD IVLNEVKVD SEYIATVCGS FRRGAESSGD MDVLLTHPSF  
TSESTKQPKL LH

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

POLB protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

DNA polymerase beta (POLB) is a member of the DNA polymerase type-X family. In eukaryotic cells, POLB performs base excision repair necessary for DNA maintenance, replication, recombination, and drug resistance. POLB has 2 separate domains; the larger is the polymerase domain itself, whereas a small basic N-terminal domain contains an AP lyase activity which excises the abasic sugar-phosphate residue at the strand break. POLB fills single nucleotide gaps in DNA produced by the base excision repair pathway of mammalian cells. POLB overexpression, as seen in some human tumors, could convene an increase in spontaneous mutagenesis.

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