Data Sheet

DNA Polymerase beta

Human, recombinant, N-terminal His-tag
Catalog #: 21000
Lot #: 130509 Conc.: 0.86 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 250 mM imidazole, 0.04% Tween-20, and 20% glycerol.

Stability: >6 months at -80℃

References:

1. Yamtich, J., *et al., PLoS Genet.* 2012;**8(11)**: E1003052.
2. Wang, K., *et al., Cancer Res.* 1992;**52(17)**: 4824-4827.

Description:

Human DNA polymerase beta, also known as Pol beta and POLB (GenBank Accession No. NM_002690), amino-acids 2-335 (end), with N-terminal His-tag, MW=39 kDa, expressed in an *E. coli* cell expression system.

Application:

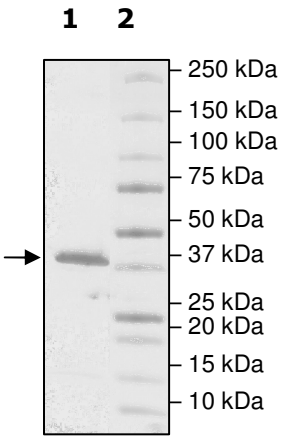
Useful for DNA synthesis and DNA repair, as an antigen for Western blotting, and for inhibitor screening.

Quality Assurance

4-20% SDS-PAGE
Coomassie staining

Lane 1:
2.6 µg POLB
Lane 2:
Protein Marker

Purity: ≥84%
MW: 39 kDa



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Sequence:
MHHHHHHSKRKAPQETLNGGITDMLTELANFEKNVSQAIHKYNAYRKAASVIAKYPH
KIKSGAEAKKLPGVGTKIAEKIDEFLATGKLRKLEKIRQDDTSSSINFLTRVSGIGPSAA
RKFVDEGIKTLEDLRKNEDKLNHHQRIGLKYFGDFEKRIPREEMLQMQDIVLNEVKKV
DSEYIATVCGSFRRGAESSGDMDVLLTHPSFTSESTKQPKLLHQVVEQLQKVHFITDT
LSKGETKFMGVCQLPSKNDEKEYPHRRIDIRLIPKDQYYCGVLYFTGSDIFNKNMRAH
ALEKGFTINEYTIRPLGVTGVAGEPLPVDSEKDIFDYIQWKYREPKDRSE

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