

Active Recombinant Rat DNA polymerase β ;

Cat. No. DNA polymerase β -136H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is highly purified full-length rat DNA polymerase β overproduced in E. coli with high enzymatic activity without any tag attached. The enzyme has molecular mass of 38 kDa. The amino acid sequence of the rat enzyme has 86% identity to the human homolog.
Species	Rat
Source	E.coli
Description	DNA polymerase β is a distributive polymerase involved in base excision repair which repairs damaged DNA by excising modified bases (oxidized, methylated, deaminated etc.)
Form	1.3 mg/ml in 50mM Tris-HCl pH7.6, 0.3M KCl, 0.1mM EDTA, 1mM DTT, 20% Glycerol
Bio-activity	90 unit/ul
Purity	Over 95% pure by SDS-PAGE analysis
Unit Definition	1 unit of the enzyme activity incorporates 1 nanomole of dNTP into acid-insoluble fraction at 37°C in 60 min.
Applications	1) For the studies on the mechanisms of base-excision repair of DNA damage 2) As a positive control of western blotting with anti-DNA polymerase β antibody

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Storage

Store at -20°C (long period, 70°C)

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