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## Product Data Sheet

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Product Name: POLD4 Human  
 Cat. No.: GP24204  
 Batch No.: 1

### Product Data

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | DNA polymerase delta subunit 4; p12; POLDS; DNA polymerase delta subunit p12; POLD4; Polymerase Delta 4.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMGRKRLI TDSYPVVKRR EGPAGHSGE<br>LAPELGEEPQ PRDEEEAELE LLRQFDLAWQ YGPCTGITRL QRWCRAKQMG<br>LEPPPEVWQV LKTHPGDPRF QCSLWHLYPL. |                    |                         |
| Formulation         | The POLD4 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 2mM DTT.   |                    |                         |

### Introduction

Polymerase Delta 4 also known as POLD4 is the smallest subunit of DNA polymerase delta. DNA polymerase delta which takes a vital part in DNA replication and repair possesses both polymerase and 3' to 5' exonuclease activity. POLD4 increases the activity of DNA polymerase delta and takes a part in fork repair and stabilization during interactions with the DNA helicase Bloom syndrome protein. POLD4 contributes to PCNA-dependent activity of DNA polymerase delta.

### 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.

### Background

POLD4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 130 amino acids (1-107) and having a molecular mass of 14.8kDa. POLD4 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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