

AR51106PU-S**Human POLD4 (1-107, His-tag) - Purified****Alternate names:**

DNA polymerase delta subunit 4, DNA polymerase delta subunit p12, POLDS

Quantity:

20 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

POLD4 is the smallest subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The protein enhances the activity of DNA polymerase delta and plays a role in fork repair and stabilization through interactions with the DNA helicase Bloom syndrome protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Uniprot ID:[Q9HCU8](#)**NCBI:**[NP_066996](#)**GeneID:**[57804](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT**Description:**

Recombinant human POLD4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMGRKRLI TDSYPVVKRR EGPAGHSGE LAPELGEEPQ
PRDEEEAELE LLRQFDLAWQ YGPCTGITRL QRWCRAKQMG LEPPPEVWQV LKTHPGDPRF
QCSLWHL YPL

Molecular weight: 14.8 kDa (130aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Taylor T.D., et al. (2006) Nature. 440:497-500 Gerhard D.S., et al. (2004) Genome Res. 14:2121-2127

Pictures:

