

Product information



POLD4, 1-107aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2282

Full name: DNA polymerase delta subunit 4

NCBI Accession No.: NP_066996

Synonyms: p12, POLDS

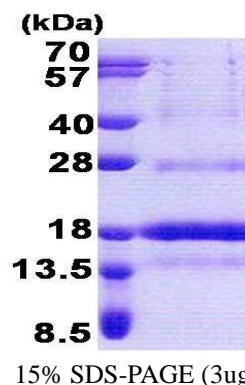
Description: POLD4 is the smallest subunit of DNA polymerase delta. DNA polymerase delta possesses both polymerase and 3' to 5' exonuclease activity and plays a critical role in DNA replication and repair. The protein enhances the activity of DNA polymerase delta and plays a role in fork repair and stabilization through interactions with the DNA helicase Bloom syndrome protein. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. Recombinant human POLD4 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT

Molecular Weight: 14.8 kDa (130aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMGRKRLI TDSYPVVKRR EGPAGHSKGE LAPELGEEPQ PRDEEEAELE LLRQFDLAWQ YGPCTGITRL
QRWCRAKQMG LEPPPEVWQV LKTHPGDPRF QCSLWHL YPL

General references:

Taylor T.D., *et al.* (2006) *Nature*. 440:497-500

Gerhard D.S., *et al.* (2004) *Genome Res*. 14:2121-2127

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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