Recombinant human DNA polymerase delta subunit 4/POLD4 protein

Catalog Number: ATGP2282

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-107aa

UniProt No.
Q9HCU8

NCBI Accession No.
NP_066996

Alternative Names
DNA polymerase delta 4 accessory subunit, DNA polymerase delta smallest subunit p12, DNA polymerase delta subunit p12

PRODUCT SPECIFICATION

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

Concentration
0.25mg/ml (determined by Bradford assay)

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

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

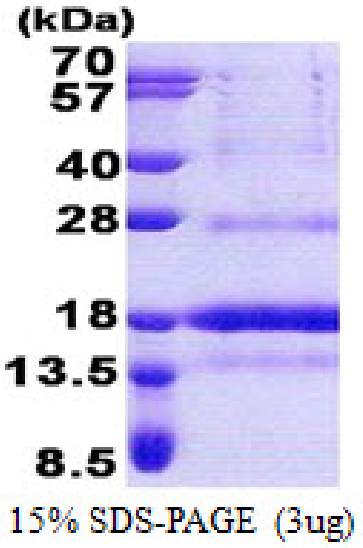
MGSSHHHHHH SSGLVPRGSH MGSMGRKRLI TDSYPVVKRR EGPAGHSKGE LAPELGEEPQ PRDEEEAELE LLRQFDLAWQ YGPCTGITRL QRWCRAKQMG LEPPPEVWQV LKTHPGDPRF QCSLWHLYPL

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.