

POLD4, 1-107aa, Human, His tag, E.coli

Cat.NO.: TP03454

3th Edition

Synonyms:DNA polymerase delta subunit 4, 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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMGRKRLITDSYPVVKRREGPAGHSHKSELAPELGEEPQPRDEEEAELELLRQ
FDLAWQYGPCTGITRLQRWCRAKQMGLEPPPEVWQVLKTHPGDPRFQCSLWHLYPL

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.