Recombinant human DNA polymerase epsilon 3/POLE3 protein

Catalog Number: ATGP2141

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-147aa

UniProt No.
Q9NRF9

NCBI Accession No.
NP_059139

Alternative Names
DNA polymerase epsilon 3 accessory subunit (approved)/CHRAC2, Histone fold protein CHRAC17, DNA polymerase epsilon p17 subunit, Chromatin accessibility complex 17, Arsenic transactivated protein, Chromatin accessibility complex subunit 2, AsTP, DNA polymerase II subunit 3, DNA polymerase epsilon subunit p17

PRODUCT SPECIFICATION

Molecular Weight
19.2 kDa (170aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Purity
> 85% 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
POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging. POLE3 has been shown to interact with SMARCA5. Recombinant human POLE3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

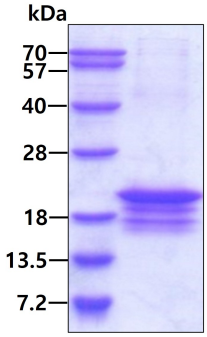
<MGSSHHHHHH SSGLVPRGSH MGS>MAERPED LNLPNAVITR IIKEALPDGV NISKEARSAI SRAASVFVLY ATSCANNFAM KGKRKTLNAS DVLSAMEEME FQRFVTPLKE ALEAYRREQK GKKEASEQKK KDKDKKTDSE EQDKSRDEDN DEDEERLEEE EQNEEEEVDN

General References

Bolognese F, Imbriano C, et al. (2000). Nucleic Acids Res. 28(19):3830-8.
Li Y, Pursell ZF, et al. (2000). J Biol Chem. 275(30):23247-52.

DATA

SDS-PAGE



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