

# Recombinant human TREX2 protein

Catalog Number: ATGP0970

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-236aa

### UniProt No.

Q9BQ50

### NCBI Accession No.

NP\_542432

### Alternative Names

Three prime repair exonuclease 2

## PRODUCT SPECIFICATION

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### Molecular Weight

28.0 kDa (256aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 30% glycerol

### Purity

> 95% 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

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### Description

TREX2 is an enzyme containing 3-prime-to-5-prime exonuclease activity and removes mismatched, modified, fragmented, and normal nucleotides to generate the appropriate 3-prime termini for subsequent steps in the DNA metabolic pathways. This enzyme is involved in DNA replication, repair, and recombination. Recombinant human TREX2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

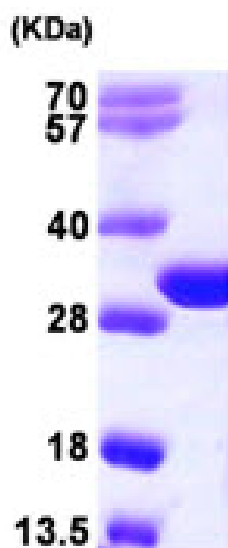
MGSSHHHHHH SSGLVPRGSH MSEAPRAETF VFLDLEATGL PSVEPEIAEL SLFAVHRSSL ENPEHDESGA LVLPRVLDKL  
TLCMCPERPF TAKASEITGL SSEGLARCRK AGFDGAVVRT LQAFLSRQAG PICLVAHNGF DYDFPLLCAE LRRLGARLPR  
DTVCLDTLPA LRGLDRAHSH GTRARGRQGY SLGSLFHRYF RAEPSAAHSA EGDVHTLLLI FLHRAAELLA WADEQARGWA  
HIEPMYLPDP DPSLEA

### General References

Parra D., et al. (2009) Cancer Res. 69(16):6676-84.  
Perrino FW., et al. (2008) J Biol Chem. 283(31):21441-52.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)