

**TREX2, 1-236aa, Human, His tag, E.coli**

**Cat.NO.: TP04308**

3th Edition

**Synonyms:**Three prime repair exonuclease 2

**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.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 30% glycerol

**Molecular Weight:**28.0 kDa (256aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSEAPRAETVFLDLEATGLPSVEPEIAELSLFAVHRSSLENPEHDESGALVLP  
LDKLTLCMCPERPFTAKASEITGLSSEGLARCRKAGFDGAVVRTLQAFLSRQAGPICLVAHNGFDYDFPLLCAELRR  
LGARLPRDTVCLDTLPALRGLDRAHSHGTRARGRQGYSLSLFHRYFRAEPSAAHSAEGDVHTLLLIFLHRAEELL  
AWADEQARGWAHIEPMYLPDDPSLEA

**Purity:**> 95% by HPLC

**Concentration:**1 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.