

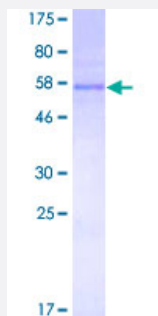
Full-Length

TREX1 (Human) Recombinant Protein (P01)

Catalog # H00011277-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TREX1 full-length ORF (NP_009179.1, 1 a.a. - 304 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MQTLIFFDMEATGLPFSQPKVTELCLLAVHRCALSPPTSQGGPPPTVPPPPRVVDKLSLCVAPG
KACSPAASEITGLSTAVLAAHGRQCFDDNLNLLAFLRRQPQPWCLVAHNGDRYDFLLQAE
AMLGLTSALDGAFCVDSITALKALERASSPSEHGPRKSYSLGSIYTRYGQSPDSHTAEGDVLAL
LSICQWRPQALLRWVDAHARPFGTIRPMYGVTAARTKPRPSAVTTTAHLATTRNTSPSLRESRG
TKDLPPVKDPGALSREGLLAPLGLLAILTLAVATLYGLSLATPGE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.07

Interspecies Antigen Sequence

Mouse (73); Rat (74)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TREX1

Entrez GeneID[11277](#)**GeneBank Accession#**[NM_007248.1](#)**Protein Accession#**[NP_009179.1](#)**Gene Name**

TREX1

Gene Alias

AGS1, AGS5, CRV, DKFZp434J0310, DRN3, HERN5

Gene Description

three prime repair exonuclease 1

Omim ID[192315](#) [225750](#) [606609](#) [610448](#) [610905](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes the major 3'->5' DNA exonuclease in human cells. The protein is a non-processive exonuclease that may serve a proofreading function for a human DNA polymerase. It is also a component of the SET complex, and acts to rapidly degrade 3' ends of nicked DNA during granzyme A-mediated cell death. Mutations in this gene result in Aicardi-Goutieres syndrome, chilblain lupus, and Cree encephalitis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

3' repair exonuclease 1|OTTHUMP00000164813|deoxyribonuclease III, dnaQ/mutD-like

Publication Reference

- [Deciphering the molecular mechanisms of Maxing Huoqiao Decoction in treating pulmonary fibrosis via transcriptional profiling and circRNA-miRNA-mRNA network analysis.](#)

Caiping Zhao, Erfan Bu, Chuanhai Zhang, Ruogu Lai, Jinlian He, Bin Guo, Wanyi Guo, Liang Liu, Hudan Pan.

Phytomedicine 2023 Jul; 115:154754.

Application: Sub, Mouse, NIH/3T3 cells

Disease

- [Adenocarcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Myositis](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)