

Recombinant Human TP53 protein, GST-tagged

Cat. No. TP53-010H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TP53 protein, fused to GST-tagged, was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMARIYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKD FE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDGSTSLVPRG SEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFRLL
 GFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQ
 HMTEVVRRCPPHHERCSDSDGLAPPQHILIRVEGNLRVEYLDDRNTFRHSVVVPYEPP
 EVGSDCTTIHYNMCMSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGR
 DRRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRE
 RFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPD
 SD

Purity >80 %

Storage Long Term Storage at -20 centigrade to -80 centigrade. Avoid freeze/thaw cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name TP53 tumor protein p53 [Homo sapiens (human)]

Official Symbol TP53

Synonyms P53; BCC7; LFS1; BMFS5; TRP53

Gene ID 7157

mRNA Refseq NM_000546

Protein Refseq NP_000537

MIM 191170

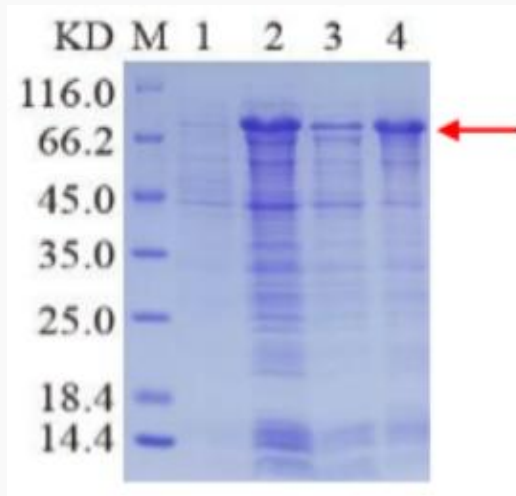
UniProt ID P04637

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**SDS-PAGE analysis
of recombinant p53
expression.**



Lane M: protein marker

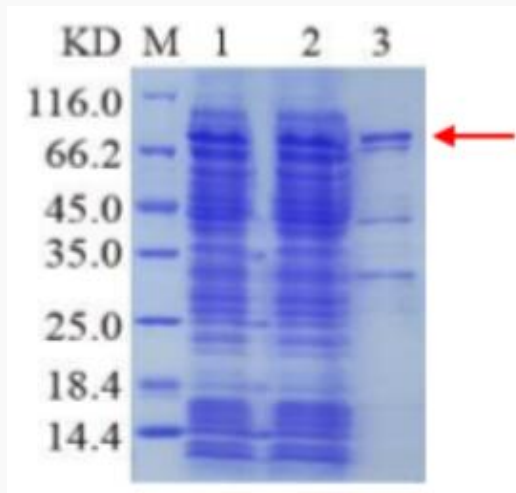
Lane 1: bacteria of before induce

Lane 2: bacteria of after induce

Lane 3: supernatant of the ultrasound crushing after induce

Lane 4: precipitation of the ultrasound crushing after induce

**SDS-PAGE analysis
of purified
recombinant p53.**



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Lane M: protein marker


Lane 1: sample

Lane 2: Flow through

Lane 3: Elution

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