

Recombinant Human TP53 Protein, GST-tagged

Cat. No. TP53-30574H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human TP53 protein with a GST tag 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.

AA Sequence

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MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY
YIDGDVKLTQSMAIIRYIADKHNLGGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFE
TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
FPKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGQWQATFGGGDHPKSDGSTSLVPRG
SEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTE
DPGPDEAPRMPEAAPPVAPAAPAAPTAAAPAPAPSWPLSSSVPSQKTYQGSYGFR
GFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQ
HMTEVVRRCPHHERCSDSDGLAPPQHILIRVEGNLRVEYLDDRNTFRHSVVVPEPP
```

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EVGSDCTTIHYNMCMSSCMGGMNRRLPILTIITLEDSSGNLLGRNSFEVRVCACPGR
 DRRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRE
 RFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPD
 SD

Purity >80 % as determined by SDS-PAGE

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

Storage Buffer 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol

GENE INFORMATION

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

Official Symbol TP53

Synonyms TP53; tumor protein p53; P53; BCC7; LFS1; BMFS5; TRP53; cellular tumor antigen p53; antigen NY-CO-13; mutant tumor protein 53; p53 tumor suppressor; phosphoprotein p53; transformation-related protein 53; tumor protein 53; tumor suppressor p53

Gene ID 7157

mRNA Refseq NM_000546

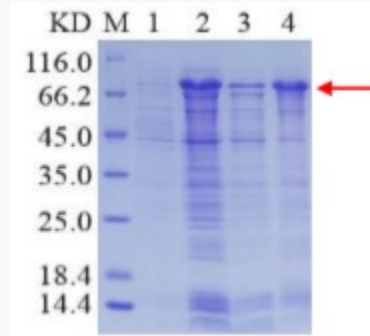
Protein Refseq NP_000537

MIM 191170

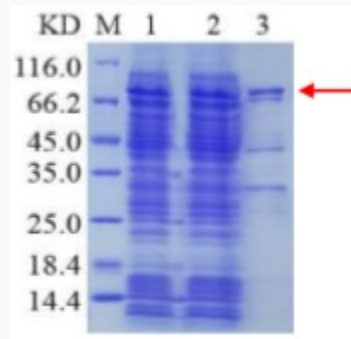
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UniProt ID
P04637
**SDS-PAGE analysis
of recombinant p53
expression**


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**


Lane M: protein marker,
Lane 1: sample
Lane 2: Flow through
Lane 3: Elution

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