

## Active Recombinant Human Tumor Protein P53

Cat. No. TP53-170H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TP53 protein expressed in <i>E.coli</i> encodes full length amino acids and has a molecular mass of 43.7 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to mdm2, SV40 T antigen and human papilloma virus E6 protein p53 senses DNA damage and possibly facilitating repair. Mutation involving p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.
<b>Formulation</b>	5g/5μ purified human p53 in 20mM Tris-Acetate, pH 8, 0.6M NaCl and 50% Glycerol.
<b>Application</b>	<ul style="list-style-type: none"> <li>• P53 is an excellent substrate for kinase assays;</li> <li>• It can be used as a reagent for development of DNA based binding Assay.</li> </ul>
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Activity</b>	Active in DNA binding assays.
<b>Storage &amp; Stability</b>	For long term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Full Length</b>	Full L.

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## GENE INFORMATION

<b>Gene Name</b>	TP53 tumor protein p53 [ Homo sapiens ]
<b>Synonyms</b>	TP53; tumor protein p53; p53; LFS1; TRP53; FLJ92943; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53; p53 transformation suppressor; p53 tumor suppressor; transformation-related protein 53
<b>Gene ID</b>	7157
<b>mRNA Refseq</b>	NM_000546
<b>Protein Refseq</b>	NP_000537
<b>MIM</b>	191170
<b>UniProt ID</b>	P04637
<b>Chromosome Location</b>	17p13.1
<b>Pathway</b>	Amyotrophic lateral sclerosis (ALS); Apoptosis; Basal cell carcinoma; Bladder cancer; Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Endometrial cancer; Glioma; Huntington"s disease; MAPK signaling pathway; Melanoma; Neurotrophin signaling pathway; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Small cell lung cancer; Thyroid cancer; Wnt signaling pathway; p53 signaling pathway; Cell Cycle Checkpoints
<b>Function</b>	ATP binding; DNA strand annealing activity; chaperone binding; chromatin binding; copper ion binding; enzyme binding; metal ion binding; promoter binding; protein N-terminus binding; protein heterodimerization activity; transcription factor activity;

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transcription factor binding; zinc ion binding

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