

## Active Recombinant Human Tumor Protein P53

Cat. No. TP53-1076H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>p53 wild type is His-tagged at the N-terminus. The protein was identified as a tumor suppressor by showing to block the transformation and to inhibit tumor cell growth. In addition, p53 is a transcription factor capable of regulating the expression of a subset of downstream genes. Different mutations in p53 gene have been characterized in a variety of human cancers. Loss or mutation of p53 function is highly correlated with tumorigenes</p>
<b>Form</b>	Liquid. Supplied in 20mM Tris-HCl pH8.0, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.
<b>Activity</b>	1ng is sufficient for a gel mobility shift assay in a 20µl reaction, 50ng are sufficient for reconstituted transcription assay and 100ng are sufficient for a protein-protein interaction assay.
<b>Application</b>	Recombinant p53 can be used for: (1) Mobility shift assay or for DNase I footprinting in the presence of double stranded DNA contain a consensus p53- binding sequence [5'-PuPuPuC (A/T) (T/A) GPyPyPy-3']. (2) In vitro transcription assa. (3) Rotein-protein interaction assay. (4) Cell growth assay.
<b>Purity</b>	>95% by SDS-PAGE.

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**Usage** For in vitro use only.

**Storage** Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

## GENE INFORMATION

**Gene Name** TP53 tumor protein p53 [ Homo sapiens ]

**Synonyms** 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

**Gene ID** 7157

**mRNA Refseq** NM\_000546

**Protein Refseq** NP\_000537

**MIM** 191170

**UniProt ID** P04637

**Chromosome Location** 17p13.1

**Pathway** 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

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**Function**

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; transcription factor binding; zinc ion binding

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