

Active Recombinant Human Tumor Protein P53

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

SPECIFICATION

Product Overview

Species	Human
Source	Sf9 Cells
Description	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
Form	Liquid. Supplied in 20mM Tris-HCl pH8.0, 20% glycerol, 100mM KCl, 0.2mM EDTA and 1mM DTT.
Activity	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.
Application	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.

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Purity	>95% by SDS-PAGE.
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;

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Prostate cancer; Small cell lung cancer; Thyroid cancer; Wnt signaling pathway; p53 signaling pathway; Cell Cycle Checkpoints

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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