Active Recombinant Human TP53, His-tagged

Cat. No. TP53-3445H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human p53 produced in Sf9 cells is a single polypeptide chain with a 6His tag at the N-terminus. It contains 412 (19+393) amino acids, and having a predicted molecular mass of approximately 45.8kD, but migrates in SDS-PAGE with an apparent molecular mass of 55kD.
Species	Human
Source	Insect Cells
ProteinLength	412 a.a.
Description	Tumor proteins p53, also known as p53, cellular tumor antigen p53 (UniProt name), phosphoprotein p53, tumor suppressor p53, antigen NY-CO-13, or transformation-related protein 53 (TRP53), are encoded by homologous genes in various organisms such as TP53 (humans) and Trp53 (mice). This homolog is crucial in multicellular organisms, where it prevents cancer formation, thus, functions as a tumor suppressor. As such, p53 has been described as "the guardian of the genome" because of its role in conserving stability by preventing genome mutation. Hence TP53 is classified as a tumor suppressor gene.
Form	10mM HEPES-Na (pH7.9), 150mM NaCl and 3mM EDTA
Bio-activity	Tumor suppressor protein p53 is involved in transcription activation, DNA repair, cell cycle arrest and apoptosis. Recombinant human p53 protein is ideal for the studies of transcriptional activation, protein-protein interactions and other related function

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	assays.
AA Sequence	MHHHHHHGRRASVEDVVCCSEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLP SQAMDDLMLSPDDIEQWFT EDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPSW PLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPA LNKMFCQLAKTCPVQLW VDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRVEGNLR VEYLDDRNTFRHSVVVPYEPPEVGSDCTTIHYNYMCNSSCMGGMNRRPILTIITLED SSGNLLGRNSFEVRVCA CPGRDRRTEEENLRKKGEPHHELPPGSTKRALPNNTSS SPQPKKKPLDGEYFTLQIRGRERFEMFRELNEALE LKDAQAGKEPGGSRAHSSHLK SKKGQSTSRHKKLMFKTEGPDSD
Purity	≥90%, as determined by SDS-PAGE
Usage	FOR RESEARCH ONLY
Storage	The protein sample can be stored under sterile conditions at 2- 8 centigrade for one month or at -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TP53 tumor protein p53 [Homo sapiens]
Official Symbol	TP53
Synonyms	P53; BCC7; LFS1; 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
Gene ID	7157

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mRNA Refseq	NM_000546
Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637
Chromosome Location	17p13.1
Pathway	AMPK signaling, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem
Function	ATP binding; DNA binding; MDM2/MDM4 family protein binding

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