Recombinant Human TP53, His-tagged

Cat. No. TP53-58H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human p53, transcript variant 1, was expressed in E. coli from human cDNA (accession number NM_000546.5) with an N-terminal polyhistidine tag.
Species	Human
Source	E.coli
Description	p53 is a tumor suppressor protein functioning as a sequence-specific transcription factor important for cell cycle arrest, apoptosis, and DNA-damage response.
Form	50 mM Tris-HCl pH 8, 200 mM NaCl, 5 mM beta-mercaptoethanol and 5% glycerol.
Molecular Mass	53 kDa
Applications	In vitro transcription, protein-protein interactions and protein-DNA interaction studies. A recommended starting point for in vitro transcription assays is 20-100 ng per reaction.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

GENE INFORMATION

Gene Name	TP53 tumor protein p53 [Homo sapiens]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	TP53
Synonyms	TP53; tumor protein p53; cellular tumor antigen p53; LFS1; Li Fraumeni syndrome; p53; antigen NY-CO-13; mutant p53 protein; phosphoprotein p53; p53 tumor suppressor; truncated p53 protein; tumor suppressor TP53; transformation-related protein 53; P53; TRP53; FLJ92943;
Gene ID	7157
mRNA Refseq	NM_000546
Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637
Chromosome Location	17p13.1
Pathway	Activation of BH3-only proteins, organism-specific biosystem; Activation of NOXA and translocation to mitochondria, organism-specific biosystem; Activation of PUMA and translocation to mitochondria, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA strand annealing activity; MDM2 binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; chaperone binding; chromatin binding;

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	copper ion binding; damaged DNA binding; enzyme binding; histone acetyltransferase binding; histone deacetylase regulator activity; identical protein binding; metal ion binding; p53 binding; protease binding; protein N-terminus binding; protein binding; protein heterodimerization activity; protein kinase binding; protein phosphatase 2A binding; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding; zinc ion binding;

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