

Recombinant Human TP53 Protein, His-tagged

Cat. No. TP53-2773H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TP53 Protein (Met133-Asp393) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met133-Asp393
Description	This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.3 kDa Accurate Molecular Mass: 37 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TP53 tumor protein p53 [Homo sapiens (human)]
Official Symbol	TP53
Synonyms	TP53; tumor protein p53; P53; BCC7; LFS1; BMFS5; TRP53; cellular tumor antigen p53 antigen NY-CO-13 mutant tumor protein 53 phosphoprotein p53 transformation-related protein 53 tumor protein 53

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tumor supressor p53

Gene ID	7157
mRNA Refseq	NM_000546
Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637

