

# Recombinant Human TP53 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TP53-6044H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | TP53 MS Standard C13 and N15-labeled recombinant protein (NP_001119586) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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 (PMIDs: 12032546, 20937277). |
| <b>Molecular Mass</b>   | 37.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPPLSQAMDDLMLSPDDIEQWFTE<br>DPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFR<br>L GFLHSGTAKSVTCTYSPALNKMFCQLAKTCVPVQLWVDSTPPPGTRVRAMAIYKQSQ<br>HMTEVVRRCPHHERCSDSDGLAPPQHILIRVEGNLRVEYLDDRNTFRHSVVVPYEPP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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EVGSDCTTIHYNMCMSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGR  
 DRRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQDQTSF  
 QKENCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** TP53 tumor protein p53 [ Homo sapiens (human) ]

**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\_001126114

**Protein Refseq** NP\_001119586

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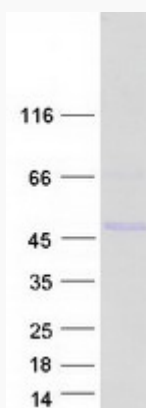
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MIM 191170

UniProt ID P04637

SDS-PAGE



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