# Recombinant Human TP53 protein, GST-tagged

**Cat. No.** TP53-15H **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Human TP53 fused with GST tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | p53 is a key regulator of cell growth and acts as a tumor suppressor gene. Wild-type p53 gene can suppress transformation of rat embryo fibroblasts in cell culture by other oncogenes such as the adenovirus E1A and Ras. DNA tumor viruses such as SV40 large T antigen and the adenovirus E1A plus E1B-55Kd proteins bind to p53 and inactivate its tumor suppressor activities leading to cellular transformation. Mutational inactivation of the p53 gene is detected in more than 50% of human cancers. Mutation of p53 renders cancer cells more resistant to current cancer therapies due to lack of p53-mediated apoptosis. |
| **Form** | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol. |
| **Molecular Mass** | ~79 kDa |
| **Purity** | Greater than 75.0% |
| **Applications** | Kinase Assay, Western Blot |

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| **Stability** | 1 year at -70 centigrade from the date of shipment |
| **Storage** | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| **Concentration** | 0.2μg/μl |

## GENE INFORMATION

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| **Gene Name** | TP53 tumor protein p53 [ Homo sapiens ] |
| **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 |

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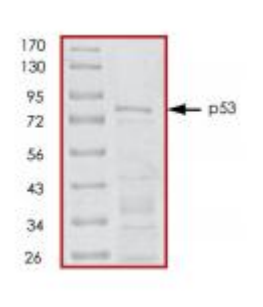
| **Pathway** | Activation of BH3-only proteins, organism-specific biosystem; Activation of NOXA and translocation to mitochondria, organism-specific biosystem; Activation of PUMA and translocation to mitochondria, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; |
| |  |



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