

## Recombinant Human Tumor Protein P53, GST-tagged

Cat. No. TP53-325H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human p53 was expressed by baculovirus in Hi5 cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>TP53 is a key regulator of cell growth and acts as a tumor suppressor gene. Wild-type TP53 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 TP53 and inactivate its tumor suppressor activities leading to cellular transformation. Mutational inactivation of the TP53 gene is detected in more than 50% of human cancers. Mutation of TP53 renders cancer cells more resistant to current cancer therapies due to lack of TP53-mediated apoptosis.</p>
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	79 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.

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<b>Purity</b>	> 95 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at -70oC. 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.

## GENE INFORMATION

<b>Gene Name</b>	TP53 tumor protein p53 [ Homo sapiens ]
<b>Official Symbol</b>	TP53
<b>Synonyms</b>	TP53; tumor protein p53; p53; LFS1; TRP53; FLJ92943; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53; p53 transformation suppressor; p53 tumor suppressor; transformation-related protein 53
<b>Gene ID</b>	7157
<b>mRNA Refseq</b>	NM_00546
<b>Protein Refseq</b>	NP_000537
<b>MIM</b>	191170
<b>UniProt ID</b>	P04637
<b>Chromosome Location</b>	17p13.1

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**Function**

ATP binding; DNA strand annealing activity; chaperone binding; chromatin binding; copper ion binding; enzyme binding; metal ion binding; promoter binding; protein N-terminus binding; protein heterodimerization activity; transcription factor activity; transcription factor binding; zinc ion binding

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