Recombinant Human Tumor Protein P53, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human p53 was expressed by baculovirus in Hi5 cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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.
Applications	Kinase Assay; Western Blot
Molecular Weight	79 kDa
Expression System	Sf9 insect cells using baculovirus
Form	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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Purity	> 95 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	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

Gene Name	TP53 tumor protein p53 [Homo sapiens]
Official Symbol	TP53
Synonyms	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
Gene ID	7157
mRNA Refseq	NM_00546
Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637
Chromosome Location	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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