

Recombinant Human Cellular Tumor Antigen p53 (N-His)

Catalog No: BP055

Description	Recombinant human cellular tumor antigen p53 is produced by <i>E. coli</i> . The target gene encoding M1-D393 is expressed with a 6His tag at the N terminus.
Expression System	<i>E. coli</i>
Alternative name	Antigen NY-CO-13; BCC7; FLJ92943; LFS1; LFS1TRP53; p53 tumor suppressor; p53; P53cellular tumor antigen p53; Phosphoprotein p53; TP53; transformation-related protein 53; TRP53; tumor protein p53; Tumor suppressor p53
Accession No.	P04637
Predicted Molecular Weight	47.2kDa
Apparent Molecular Weight	p53 protein appeared at 55kDa in a reducing SDS-PAGE gel.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by TAL test.
Formulation	20mM Tris, 300mM NaCl, 5% glycerol, 2mM DTT, 0.05mM ZnCl ₂ , pH 8.0
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Background	p53 is a DNA-binding protein that belongs to the p53 family. p53 is expressed ubiquitously and its isoforms are expressed widely in normal tissues but in a tissue-dependent manner. It is well known for its key role as a tumor suppressor protein. p53 induces growth arrest or apoptosis depending on the physiological circumstances and cell type. It is also involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. Whilst the activation of p53 often leads to apoptosis, p53 inactivation facilitates tumor progression. Mutants of p53, which frequently occur in different human cancers, fail to bind the consensus DNA binding site, and thus cause the loss of tumor suppressor activity. Defects in TP53 are a cause of esophageal cancer, Li-Fraumeni syndrome, lung cancer and adrenocortical carcinoma.

SDS-PAGE

