

## Human p53 protein, His tag (active)

Cat. No. GTX00268-pro

<b>Applications</b>	Functional Assay
<b>Species</b>	Human

Package

10 µg

## Applications

## Application Note

Tumor protein p53, also known as p53, cellular tumor antigen p53 (UniProt name), phosphoprotein p53, tumor suppressor p53, antigen NY-CO-13, or transformation- related protein 53 (TRP53), is any isoform of a protein encoded by homologous genes in various organisms, such as TP53 (humans) and Trp53 (mice). TP53 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. One of the activated genes is an inhibitor of cyclin-dependent kinases. To test the effect of TP53 on cell apoptosis, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with 1% serum standard RPMI-1640 including various concentrations of recombinant human TP53. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µl of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of Jurkat cells after incubation with TP53 for 72h observed by inverted microscope.

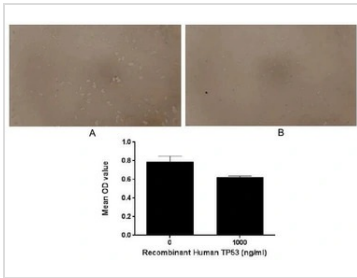
<b>Observed MW (kDa)</b>	34 kDa.
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## Properties

<b>Form</b>	Lyophilized powder
<b>Buffer</b>	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
<b>Preservative</b>	ProClin 300
<b>Storage</b>	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
<b>Region/Sequence</b>	N-terminal His-Tag; Gly108~Lys370 (NP_000537.3)
<b>Expression System</b>	E. coli
<b>Purity</b>	> 97%
<b>Endotoxin</b>	< 1 EU/µg
<b>Conjugation</b>	Unconjugated
<b>Note</b>	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



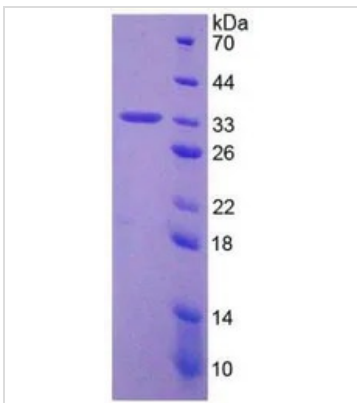
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**DATA IMAGES**

**GTX00268-pro Functional Assay Image**

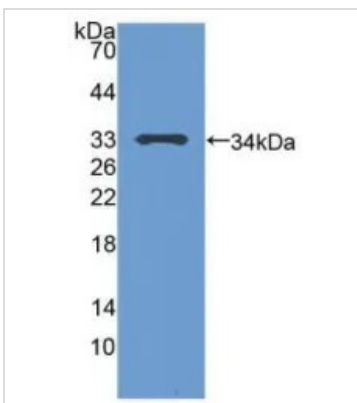
Cell proliferation effect of GTX00268-pro Human p53 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated Jurkat cells cultured in RPMI-1640 for 72hrs.

(B) Jurkat cells cultured in RPMI-1640, stimulated with 1 µg/ml TP53 for 72hrs.


**GTX00268-pro Image**

SDS-PAGE analysis of GTX00268-pro Human p53 protein (active).


**GTX00268-pro Image**

WB analysis of GTX00268-pro Human p53 protein (active).



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