

# Recombinant Human Cellular tumor antigen p53/TP53 Protein

Catalog No.: RP03290LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7157	P04637

### Tags

N-GST

### Synonyms

Cellular tumor antigen p53; P53; p53; TP53; LFS1; TRP53; Antigen NY-CO-13; Phosphoprotein p53; Tumor suppressor p53; tumor protein 53

## Product Information

Source	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
75 kDa	75-85 kDa

### Endotoxin

Please contact us for more information.

### Formulation

Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH 7.5, 50-300 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25-1.0 mM DTT, 0-0.1 mM PMSF, 10-25% glycerol. Contact us for customized product form or formulation.

### Reconstitution

## Contact

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## Background

TP53 is a gene that encodes for the p53 tumor suppressor protein. P53 protein structure comprises five main regions: the transactivation domain, proline-rich domain, DNA binding domain, tetramerization domain, and a regulatory domain. Domains of the p53 protein are subjected to post-translational modifications and this allows p53 stabilization, oligomerization, and transactivation. Sensor proteins such as ATM, ATR, Chk1, Chk2, HIPK2, DNA-PK, and p14ARF are responsible for initial signal transduction upon cellular stress resulting in p53 post-translational modifications that lead to its activation. P53 has been shown to become activated and integrate many cellular stresses including DNA damage, oncogene activation, hypoxia, replication/translation stress as well as cellular metabolic changes. Somatic mutations in p53 are found across a variety of cancer types mainly in colorectal, head & neck, esophageal, female genital organs (cervical, ovarian, uterine, vaginal & vulvar), lung and pancreas. Compared to other tumor suppressors, p53 is unique as mutations can influence its function into different outcomes: loss-of-function (LOF), dominant-negative (DN), and gain-of-function (GOF).

## Basic Information

### Description

Recombinant Human Cellular tumor antigen p53/TP53 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Asp393) of human TP53 (Accession #NM\_000546) fused with GST tag at the N-terminus.

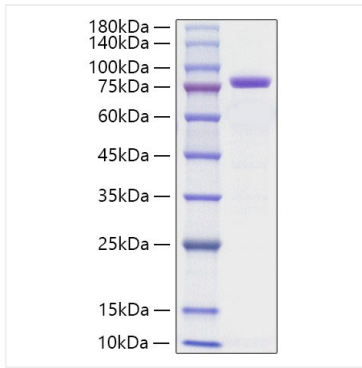
### Bio-Activity

### Storage

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Cellular tumor antigen p53/TP53 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 75-85 kDa.