

Recombinant Rat Tp53 protein, His-tagged

Cat. No. Tp53-5633R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rat Tp53 aa. (Pro90~Ala354) fused with N-terminal His tag was produced in E. coli cells.

Species Rat

Source E.coli

ProteinLength Pro90~Ala354

Description This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it is believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Alternatively spliced transcript variants have been found for this gene, but the biological validity of the variants has not been determined. p53 pseudogenes have been found on chromosomes 9 and 18.

Form Freeze-dried powder

Molecular Mass 36kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>98%
Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

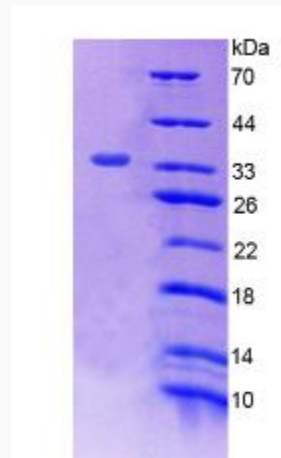
Gene Name	Tp53 tumor protein p53 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Tp53

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Synonyms	Tp53; tumor protein p53; p53; Trp53; cellular tumor antigen p53; transformation related protein 53; tumor protein p53 (Li-Fraumeni syndrome); tumor suppressor p53
Gene ID	24842
mRNA Refseq	NM_030989.3
Protein Refseq	NP_112251.2
UniProt ID	P10361

SDS-PAGE

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