

Cellular tumor antigen p53 Recombinant Protein | Tp53 recombinant protein

Recombinant Rat Cellular tumor antigen p53 protein

CATALOG #
AAA116137

HOST
E Coli

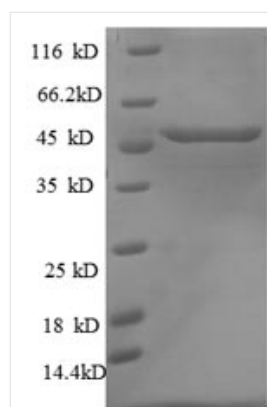
PRODUCT SYNONYMS

Cellular tumor antigen p53; Recombinant Rat Cellular tumor antigen p53 protein; Tumor suppressor p53; Tp53 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid containing glycerol
Sequence Positions	1-391aa; Full Length
Sequence	MEDSQSDMSI ELPLSQETFS CLWKLLPPDD ILPTTATGSP NSMEDLFLPQ DVAELLEGPE EALQVSAPAA QEPGTEAPAP VAPASATPWP LSSSVPSQKT YQGNYGFLHG FLQSGTAKSV MCTYSISLNK LFCQLAKTCP VQLWVTSTPP PGTRVRAMAI YKKSQHMTEV VRRCPHHERC SDGDGLAPPQ HLIRVEGNPY AEYLDDRQTF RHSVVPYEP PEVGSDYTTI HYKYMENSSC MGGMNRRPIL TIITLEDSSG NLLGRDSFEV RVCACPRDR RTEEENFRKK EEHCELPPEG SAKRALPTST SSSPQQKKKP LDGEYFTLKI RGRERFEMFR ELNEALELKD ARAAEESGDS RAHSSYPKTK KGQSTSRHKK PMIKKVGPD D
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Tp53 recombinant protein	Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. 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. Apoptosis induction ses to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis; the function is largely independent of transcription. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and se to have to effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2.
References	Nucleotide sequence of a cDNA encoding the rat p53 nuclear oncoprotein.Soussi T.Nucleic Acids Res. 16:11384-11384(1988) Structure of the rat p53 tumor suppressor gene.Hulla J.E., Schneider R.P.Nucleic Acids Res. 21:713-717(1993) Glucose catabolism in cancer cells. The type II hexokinase promoter contains functionally active response elements for the tumor suppressor p53.Mathupala S.P., Heese C., Pedersen P.L.J. Biol. Chem. 272:22776-22780(1997) Heat shock protein 84 forms a complex with mutant p53 protein predominantly within a cytoplasmic compartment of the cell.Sepehrnia B., Paz I.B., Dasgupta G., Momand J.J. Biol. Chem. 271:15084-15090(1996) p53 opens the mitochondrial permeability transition pore to trigger necrosis.Vaseva A.V., Marchenko N.D., Ji K., Tsirka S.E., Holzmann S., Moll U.M.Cell 149:1536-1548(2012)

NCBI AND UNIPROT INFORMATION

NCBI GI #	189083686
NCBI GeneID	24842
NCBI Accession #	NP_112251.2
NCBI GenBank Nucleotide #	NM_030989.3
UniProt Accession #	P10361; O09168; Q4KMA9; Q66HMO
Molecular Weight	47.5 kDa
NCBI Official Full Name	cellular tumor antigen p53
NCBI Official Synonym Full Names	tumor protein p53
NCBI Official Symbol	Tp53
NCBI Official Synonym Symbols	p53; Trp53
NCBI Protein Information	cellular tumor antigen p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Gene Name	Tp53
UniProt Synonym Gene Names	P53
UniProt Entry Name	P53_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tp53-recombinant-protein-e-coli/116137>