Cellular Tumor Antigen P53 (TP53) Bos Indicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cellular tumor antigen p53 (TP53), Recombinant Protein
Full Product Name	Recombinant Bos indicus Cellular tumor antigen p53 (TP53)
Product Gene Name	TP53 recombinant protein
Sequence	MEESQAELNV EPPLSQETFS DLWNLLPENN LLSSELSAPV DDLLPYTDVA TWLDECPNEA PQMPEPSAPA APPPATPAPA TSWPLSSFVP SQKTYPGNYG FRLGFLQSGT AKSVTCTYSP SLNKLFCQLA KTCPVQLWVD SPPPPGTRVR AMAIYKKLEH MTEVVRRCPH HERSSDYSDG LAPPQHLIRV EGNLRAEYLD DRNTFRHSVV VPYESPEIDS ECTTIHYNFM CNSSCMGGMN RRPILTIITL EDSCGNLLGR NSFEVRVCAC PGRDRRTEEE NLRKKGQSCP EPPPRSTKRA LPTNTSSSPQ PKKKPLDGEY FTLQIRGFKR YEMFRELNDA LELKDALDGR EPGESRAHSS HLKSKKRPSP SCHKKPMLKR EGPDSD
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	43,256 Da
Sequence Positions	1-386, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P67938
Species	Bos indicus (Zebu)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TP53 recombinant protein	MBS1237825 is a recombinant protein targeting TP53. Also known as Recombinant Bos indicus Cellular tumor antigen p53 (TP53). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TP53 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TP53. It may not necessarily be applicable to this product.

NCBI GI #	1131208113
NCBI GeneID	109574238
NCBI Accession #	XP_019837670.1
UniProt Primary Accession #	P67938
UniProt Secondary Accession #	Q29628

UniProt Related Accession #	P67938
GenBank Nucleotide #	XM_019982111.1
NCBI Official Full Name	cellular tumor antigen p53
NCBI Official Symbol	TP53
NCBI Official Synonym Symbols	p53
UniProt Protein Name	Cellular tumor antigen p53
UniProt Synonym Protein Names	Tumor suppressor p53
Protein Family	Cellular tumor antigen
UniProt Gene Name	TP53
NCBI Protein Information	cellular tumor antigen p53
UniProt Comments for TP53	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 seems 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 seem to have to effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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