

Recombinant Human TP53I3, His-tagged

Cat. No. TP53I3-30289TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PIG3 with N terminal His tag, 352 amino acids with tag, MWt 37.6kDa.
Species	Human
Source	E.coli
ProteinLength	332 amino acids
Description	The protein encoded by this gene is similar to oxidoreductases, which are enzymes involved in cellular responses to oxidative stresses and irradiation. This gene is induced by the tumor suppressor p53 and is thought to be involved in p53-mediated cell death. It contains a p53 consensus binding site in its promoter region and a downstream pentanucleotide microsatellite sequence. P53 has been shown to transcriptionally activate this gene by interacting with the downstream pentanucleotide microsatellite sequence. The microsatellite is polymorphic, with a varying number of pentanucleotide repeats directly correlated with the extent of transcriptional activation by p53. It has been suggested that the microsatellite polymorphism may be associated with differential susceptibility to cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	37.600kDa inclusive of tags

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MLAVHFDKPG GPENLYVKEV AKPSPGEGEV LLKVAASALN RADLMQRQGQ YDPPPGASNI LGLEASGHVA ELGPGCQGHW KIGDTAMALL PGGGQAQYVT VPEGLLMPPI EGLTLTQAAA IPEAWLTAFAQ LLHLVGNVQA GDYVLIHAGL SGVGTAAIQL TRMAGAIPLV TAGSQKKLQM AEKLGAAAGF NYKKEDFSEA TLKFTKGAGV NLILDCIGGS YWEKNVNCLE LDGRWVLYGL MGGGDINGPL FSKLLFKRGS LITSLLRSRD NKYKQMLVNA FTEQILPHFS TEGPQRLLPV LDRIYPVTEI QEAHKYMEAN KNIGKIVLEL PQ
Sequence Similarities	Belongs to the zinc-containing alcohol dehydrogenase family. Quinone oxidoreductase subfamily.
GENE INFORMATION	
Gene Name	TP53I3 tumor protein p53 inducible protein 3 [Homo sapiens]
Official Symbol	TP53I3
Synonyms	TP53I3; tumor protein p53 inducible protein 3; quinone oxidoreductase PIG3; PIG3;
Gene ID	9540

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mRNA Refseq	NM_004881
Protein Refseq	NP_004872
MIM	605171
Uniprot ID	Q53FA7
Chromosome Location	2p23.3
Pathway	Direct p53 effectors, organism-specific biosystem; p53 signaling pathway, organism-specific biosystem; p53 signaling pathway, conserved biosystem;
Function	NADPH binding; NADPH:quinone reductase activity; nucleotide binding; oxidoreductase activity; protein homodimerization activity;

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