

# Recombinant human TP53I3 protein

Catalog Number: ATGP0572

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-332aa

**UniProt No.**

Q53FA7

**NCBI Accession No.**

NP\_671713

**Alternative Names**

Quinone oxidoreductase PIG3, PIG3, Quinone oxidoreductase PIG3 p53 induced gene 3 protein, Putative quinone oxidoreductase, quinone oxidoreductase homolog, TP53I3, Tumor protein p53 inducible protein 3.

## PRODUCT SPECIFICATION

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**Molecular Weight**

37.6 kDa (352aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

TP53I3, also known as quinone oxidoreductase PIG3, is similar to oxidoreductases, which are enzymes involved in cellular responses to oxidative stresses and irradiation. It is localized to the cytoplasm and induced in primary, non-transformed and transformed cell cultures after exposure to genotoxic agents. This protein has been suggested that the microsatellite polymorphism may be associated with differential susceptibility to cancer. Recombinant human TP53I3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

## Amino acid Sequence

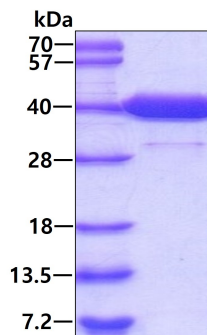
<MGSSHHHHHH SSGLVPRGSH> MLAVHFDKPG GPENLYVKEV AKPSPGEGEV LLKVAASALN RADLMQRQQQ  
YDPPPGASNI LGLEASGHVA ELGPCQGHW KIGDTAMALL PGGGQAQYVT VPEGLLMPPIV EGLTLTQAAA IPEAWLTAFQ  
LLHLVGNVQA GDYVLIHAGL SGVGTAAIQL TRMAGAIPLV TAGSQKQLQM AEKLGAAAGF NYKKEDFSEA TLKFTKGAGV  
NLILDCIGGS YWEKNVNCLA LDGRWVLYGL MGGGDINGPL FSKLLFKRGS LITSLLSRD NKKYQMLVNA FTEQILPHFS  
TEGPQRLLPV LDRIYPVTEI QEAHKYMEAN KNIGKIVLEL PQ

## General References

Flatt PM. et al. (2000) Cancer Lett. 156(1):63-72.  
Porte S, et al. (2009) J Biol Chem.. 284(25):17194-205

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.