Recombinant human PIG3/TP53I3 protein

Catalog Number: ATGP0572

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-332aa

UniProt No.
Q53FA7

NCBI Accession No.
NP_671713

Alternative Names
Quinone oxidoreductase PIG3, NADPH:quinone reductase PIG3, Tumor protein p53-inducible protein 3, p53-induced gene 3 protein

PRODUCT SPECIFICATION

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
> 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

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

using conventional chromatography techniques.

Amino acid Sequence

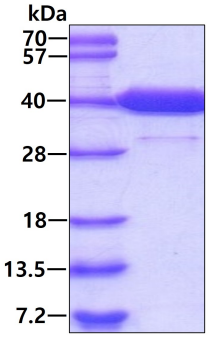
<MGSSHHHHHH SSGLVPRGSH> MLAVHFDKPG GPENLYVKEV AKPSPGEGEV LLKVAASALN RADLMQRQGQ YDPPPGASNI LGLEASGHVA ELGPGCQGHW KIGDTAMALL PGGGQAQYVT VPEGLLMPIP EGLTLTQAAA IPEAWLTAFQ LLHLVGNVQA GDYVLIHAGL SGVGTAAIQL TRMAGAIPLV TAGSQKKLQM AEKLGAAAGF NYKKEDFSEA TLKFTKGAGV NLILDCIGGS YWEKNVNCLA LDGRWVLYGL MGGGDINGPL FSKLLFKRGS LITSLLRSRD NKYKQMLVNA 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.