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**Product Data Sheet**


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Product Name: TP53I3 Human  
 Cat. No.: GP22311  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TP53I3; PIG3; Quinone Oxidoreductase; tumor protein p53 inducible protein 3.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MLAVHFDKPG GPENLYVKEV AKPSPGEGEV LLKVAASALN RADLMQRQGQ YDPPPGASNI LGLEASGHVAELGPGCQGHW KIGDTAMALL PGGGQAQYVT VPEGLLMPPIV EGLTLTQAAA IPEAWLTAFAQ LLHLVGNVQA GDYVLIHAGL SGVGTAAIQLTRMAGAIPLV TAGSQQKLLQM AEKLGAAAGF NYKKEDFSEA TLKFTKGAGV NLILDCIGGS YWEKNVNCLA LDGRWVLYGL MGGGDINGPLFSKLLFKRGS LITSLRSRD NKYKQMLVNA FTEQILPHFS TEGPQRLLPV LDRIYPVTEI QEAHKYMEAN KNIGKIVLEL PQ.		
Formulation	1mg/ml solution containing 20mM Tris HCl pH-8, 0.1M NaCl & 10% glycerol.		

**Introduction**

TP53I3 participates in the generation of reactive oxygen species (ROS). TP53I3 has low NADPH-dependent naphthoquinone reductase activity, with a preference for 1,2-naphthoquinone over 1,4-naphthoquinone. TP53I3 has low NADPH-dependent diamine reductase activity (in vitro). TP53I3 is localized to the cytoplasm and induced in primary, non-transformed and transformed cell cultures after exposure to genotoxic agents. TP53I3 microsatellite polymorphism is associated with differential susceptibility to cancer.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TP53I3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 352 amino acids (1-332 a.a.) and having a molecular mass of 37.6 kDa. TP53I3 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.

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