

PIG3 Protein, Human, Recombinant (His)

General Information

Synonyms:	TP53I3;PIG3;tumor protein p53 inducible protein 3
Protein Construction:	A DNA sequence encoding the human TP53I3 (NP_004872.2) (Met1-Gln332) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q53FA7-1
Molecular Weight:	37.8 kDa (predicted); 37.5 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Nutlin-3 variably induces apoptosis and cell cycle arrest in cancer cells while it shows low/absent cytotoxicity in normal cells, Nutlin-3 is a promising anti-cancer agent, which exhibits activity against a variety of cancers, including acute myeloid leukemia (AML). The important role of TP53I3/PIG3 in mediating the apoptotic activity of Nutlin-3 was underlined by knock-down experiments with siRNA specific for TP53I3/PIG3, which resulted in a significant decrease in the pro-apoptotic activity of Nutlin-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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