

PDRG1 Protein, Human, Recombinant (His)

General Information

Synonyms:	PDRG;p53 and DNA-damage regulated 1;C20orf126
Protein Construction:	A DNA sequence encoding the human PDRG1 (Q9NUG6) (Met1-Gly133) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9NUG6
Molecular Weight:	17.3 kDa (predicted); 12 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:	> 95 % 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, 10% Glycerol, 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.

Actual storage temperature shall be subject to the COA.

Shipping:

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

Protein Background

PDRG1, also known as C2orf126, belongs to the prefoldin subunit beta family. It is predominantly expressed in normal testis and exhibits reduced but detectable expression in other organs. PDRG1 may play a role in chaperone-mediated protein folding. PDRG1 is overexpressed in tumors relative to normal tissues. Its expression is upregulated in multiple malignancies including cancers of the colon, rectum, ovary, lung, stomach, breast and uterus when compared to their respective matched normal tissues. Thus PDRG1 is a high-value novel tumor

marker that could play a role in cancer development and/or progression.

Reference

Kim W. et al., 2011, Mol Cell. 44 (2): 325-40.

Havugimana PC. et al., 2012, Cell. 150 (5): 1068-81.

Jiang L. et al., 2011, Cancer Biol Ther. 11 (6): 567-73.

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