

PDCD4 Protein, Human, Recombinant (His)

General Information

Synonyms:	Programmed Cell Death Protein 4;Protein 197/15a;Neoplastic Transformation Inhibitor Protein;PDCD4;Nuclear Antigen H731-Like;H731
Protein Construction:	Lys212-Pro357
Species:	Human
Expression Host:	E. coli
Accession:	Q53EL6
Molecular Weight:	17 KDa (reducing condition)
AA Sequence:	Lys212-Pro357

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Programmed Cell Death Protein 4 (PDCD4) is a member of the PDCD4 family. PDCD4 and EIF4A1 form a heterotrimer. One molecule of PDCD4 binds two molecules of EIF4A1. PDCD4 takes part in apoptosis via inhibiting translation initiation and cap-dependent translation. PDCD4 promotes colonic neoplastic transformation and tumor invasion. PDCD4 is an important target for microRNA R-21 in breast cancer cells. Shortage of PDCD4

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expression is associated with colorectal cancer. Overexpression of PDCD4 in carcinoid cells results in inhibition of cell proliferation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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