

## PDCD4 Human

**Description:** PDCD4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 469 amino acids and having a molecular mass of 51 kDa.

**Catalog #:** PRPS-613

**Synonyms:** Programmed cell death protein 4, Nuclear antigen H731-like, Neoplastic transformation inhibitor protein, Protein 197/15a, PDCD4, H731, MGC33046, MGC33047.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MDVENEQILN VNPADPDNLS DSLFSGDEEN AGTEEIKNEI  
NGNWISAYSI NEARINAKAK RRLRNSSRD SGRGDSVSDS GSDALRSLT VPTSPKGRLL  
DRRSRSGKGR GLPKKGGAGG KGVWGTPGQV YDVEEVDVKD PNYDDQENC VYETVVLPLD  
ERAFEKTLP IIQEYFEHGD TNEVAEMLRD LNLGEMKSGV PVLAVSLALE GKASHREMTS  
KLLSDLCGTV MS

**Purity:** Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 0.1M sodium chloride.

**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). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PDCD4 is restricted to the nucleus in proliferating cells. Expression of PDCD4 is modulated by cytokines in natural killer and T cells. PDCD4 takes part in apoptosis. PDCD4 is a translation inhibitor targeted for degradation during tumor promotion. PDCD4 promotes colonic neoplastic transformation and tumor invasion. PDCD4 is an important target for microRNA R-21 in breast cancer cells. Shortage of PDCD4 expression is associated with colorectal cancer. PDCD4 is swiftly phosphorylated by S6K1 kinase protein & afterwards degraded by ubiquitin ligase SCF in response to mitogens. PDCD4 in response to mitogens allows competent protein synthesis & cell growth. PDCD4 is a proapoptotic protein involved in TGF-beta1-induced apoptosis in human HCC cells, and a tumor suppressor in hepatocarcinogenesis. PDCD4 restrains tumor progression in colon carcinoma cells by the novel mechanism of down-regulating MAP4K1 transcription, with consequent inhibition of c-Jun activation and AP-1-dependent transcription. Overexpression of PDCD4 in carcinoid cells results in inhibition of cell proliferation.

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