

Recombinant Human PDCD4

Cat. No. PDCD4-175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human programmed cell death 4 (neoplastic transformation inhibitor) protein produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain. The protein contains 469 amino acids and has a molecular mass of 51 kDa.
Species	Human
Source	E.coli
Protein Length	1-469 aa
Description	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.

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Amino Acid Sequence	MDVENEQILN VNPADPDNLS DSLFSGDEEN AGTEEIKNEI NGNWISAYSI NEARINAKAK RRLRKNSSRD SGRGDSVSDS GSDALRSLT VPTSPKGRLL DRRSRSGKGR GLPKKGGAGG KGVWGTPGQV YDVEEVDVKD PNYDDDQENC VYETVVLPLD ERAFEKTLTP IIQEYFEHGD TNEVAEMLRD LNLGEMKSGV PVLAVSLALE GKASHREMTS KLLSDLCGTV MSTTDVEKSF DKLLKDLPEL ALDTPRAPQL VGQFIARAVG DGILCNTYID SYKGTVDVCVQ ARAALDKATV LLSMSKGGKR KDSVWGSGGG QQSVNHLVKE IDMLLKEYLL SGDISEAEHC LKELEVPHFH HELVYEAIIM VLESTGESTF KMILDLLKSL WKSSTITVDQ MKRGYERIYN EIPDINLDVP HSYSVLERFV EECFQAGIIS KQLRDLCP SR GRKRFVSEGD GGRLKPESY.
Physical Appearance	Sterile Filtered colorless solution.
Formulation	The protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT and 0.1M sodium chloride.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	PDCD4 although stable 14°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	PDCD4 programmed cell death 4 (neoplastic transformation inhibitor) [Homo sapiens]
Synonyms	H731; MGC33046; MGC33047; PDCD4; Programmed cell death protein 4; Nuclear antigen H731-like; Neoplastic transformation inhibitor protein; Protein 197/15a; programmed cell death 4; nuclear antigen H731

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Gene ID	27250
mRNA Refseq	NM_014456
Protein Refseq	NP_055271
MIM	608610
UniProt ID	Q53EL6
Chromosome Location	10q24
Function	RNA binding; protein binding

PDB rendering based on 2ggf.

