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32-4416: Recombinant Human Programmed Cell Death 4

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

Description

Source : Escherichia Coli. 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. 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 & afterwords 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 restraines 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.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 0.1M sodium chloride.
Storage condition :	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.
Amino Acid :	MDVENEQILN VNPADPDNLS DSLFSGDEEN AGTEEIKNEI NGNWISAYSI NEARINAKAK RRLRKNSSRD SGRGDSVSDS GSDALRSGLT VPTSPKGRLL DRRSRSGKGR GLPKKGGAGG KGVWGTPGQV YDVEEVDVKD PNYDDDQENC VYETVVLPLD ERAFEKTLTP IIQEYFEHGD TNEVAEMLRD LNLGEMKSGV PVLAVSLALE GKASHREMTS KLLSDLCGTV MSTTDVEKSF DKLLKDLPEL ALDTPRAPQL VGQFIARAVG DGILCNTYID SYKGTVDCVQ ARAALDKATV LLSMSKGGKR KDSVWGSGGG QQSVNHLVKE IDMLLKEYLL SGDISEAEHC LKELEVPHFH HELVYEAIIM VLESTGESTF KMILDLLKSL WKSSTITVDQ MKRGYERIYN EIPDINLDVP HSYSVLERFV EECFQAGIIS KQLRDLCPSR GRKRFVSEGD GGRLKPESY.

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