
Product Data Sheet

Product Name: PDCD4 Human, His
 Cat. No.: GP24148
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Programmed cell death protein 4 isoform 1; H731.		
Amino Acid Sequence	MDVENEQILN VNPADPDNLS DSLFSGDEEN AGTEEIKNEI NGNWISASSI NEARINAKAK RRLRKNSSRD SGRGDSVSDS GSDALRSLT VPTSPKGRLL DRRSRSGKGR GLPKKGGAGG KGVWGTGPQV YDVEEVDVKD PNYDDDQENC VYETVVLPLD ERAFEKTLTP IIQEYFEHGD TNEVAEMLRD LNLGEMKSGV PVLAVSLALE GKASHREMTS KLLSDLCGTV MSTTDVEKSF DKLLKDLPEL ALDTPRAPQL VGQFIARAVG DGILCNTYID SYKGTVDVCVQ ARAALDKATV LLSMSKGGKR KDSVWGSGGG QQSVNHLVKE IDMLLKEYLL SGDISEAEHC LKELEVPHFH HELVYEAIM VLESTGESTF KMILDLLKSL WKSSTITVDQ MKRGYERIYN EIPDINLDVP HSYSVLERFV EECFQAGIIS KQLRDLCPSR GRKRFVSEGD GGRLKPESY.		
Formulation	The protein (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 0.1M NaCl.		

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 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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

PDCD4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain of 469 amino acids having a molecular mass of 51.7kDa. The Recombinant Human PDCD4 is purified by proprietary chromatographic techniques.

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