PDCD4 Protein, Human (His)

Cat. No.:	HY-P71191
Synonyms:	Programmed Cell Death Protein 4; Neoplastic Transformation Inhibitor Protein; NuclearAntigen H731-Like; Protein 197/15a; PDCD4; H731
Species:	Human
Source:	E. coli
Accession:	Q53EL6 (K212-P357)
Gene ID:	27250
Molecular Weight:	Approximately 17.0 kDa

PROPERTIES

AA Sequence	K A S H R E M T S K L L S D L C G T V M S T T D V E K S F D K L L K D L P E L A L D T P R A P Q L V G Q F I A R A V G D G I L C N T Y I D S Y K G T V D C V Q A R A A L D K A T V L L S M S K G G K R K D S V W G S G G G Q Q S V N H L V K E I D M L L K E Y L L S G D I S E A E H C L K E L E V P
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	PDCD4, as a multifaceted protein, plays a pivotal role in inhibiting translation initiation and cap-dependent translation, potentially by disrupting the interaction between EIF4A1 and EIF4G and impeding the helicase activity of EIF4A. Moreover, it modulates JUN kinase activation and down-regulates MAP4K1 expression, thereby inhibiting crucial events associated with invasion and tumorigenesis. Functioning as a tumor suppressor, PDCD4 demonstrates the capacity to hinder neoplastic transformation induced by tumor promoters. It binds RNA and interacts with EIF4A1, EIF4A2, and EIF4G1, forming complexes that influence the translation machinery. Phosphorylation of PDCD4 facilitates interactions with BTRC and FBXW11, adding a layer of complexity to its regulatory functions in cellular processes, including apoptosis and tumor suppression.

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

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