
Product Data Sheet

Product Name: PINX1 Human

Cat. No.: GP24187

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PINX1; LPTL; LPTS; MGC8850; FLJ20565; Pin2-interacting protein X1; TRF1-interacting protein 1; Liver-related putative tumor suppressor; Protein 67-11-3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSMLAERRRK QKWAVDPQNT AWSNDDSKFG QRMLEKMGWS KGKGLGAQEH GATDHIKVVQV KNNHLGLGAT INNEDNWIAH QDDFNQLLAE LNTCHGQETT DSSDKKEKKS FSLEEKSKIS KNRVHYMKFT KGKDLSSRSK TDLDCIFGKR QSKKTPEGDA SPSTPEENET TTSTAFTIQE YFAKRMAALK NKPQVPVPGS DISETQVERK RGKKINKEAT GKDVESYLQP KAKRHTEGKP ERAEAQERVA KKKSAPEEQ LRGPCWDQSS KASAQDAGDH VQPPEGRDFT LKPKKRRGKK KLQKPVEIAE DATLEETLVK KKKKKDSK.		
Formulation	The PINX1 protein contains 20mM Tris-HCl buffer pH-8, 1mM DTT and 10% glycerol.		

Introduction

PINX1 is a common expressed protein that localizes to nucleoli and telomere speckles. PINX1 contains a Telomerase Inhibiting Domain that is capable of binding MCRS1, TERT and TERF1. PINX1 has been shown to be a potent telomerase inhibitor and putative tumor suppressor. PINX1 is recruited to chromosome periphery by Nucleolin, their complex is necessary for faithful chromosome congression. PINX1 regulates the nucleolar accumulation and telomeric association of TRF1. PINX1 is involved in gastric cancer development. PINX1 expression is a sign of gastric cancer development. Constitutive expression of PINX1 attributes to telomere maintenance by telomerase and tumorigenicity in cancer cells.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

Recombinant Human PINX1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 348 amino acids (1-328 a.a) and having a molecular mass of 39.1 kDa. PINX1 is fused to 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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