

# Recombinant human PDZK1 protein

Catalog Number: ATGP2075

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-519aa

### UniProt No.

Q5T2W1

### NCBI Accession No.

NP\_001188254

### Alternative Names

Na(+)/H(+) exchange regulatory cofactor NHE-RF3, Na(+)/H(+) exchange regulatory cofactor NHE-RF3, CAP70, CLAMP, NHERF-3, NHERF3, PDZD1

## PRODUCT SPECIFICATION

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### Molecular Weight

59 kDa (542aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PDZK1 is a PDZ domain-containing scaffolding protein. This protein mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. Single nucleotide polymorphisms in this gene may be associated with metabolic syndrome, and overexpression of this gene may play a role in drug resistance of multiple myeloma. Recombinant human PDZK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

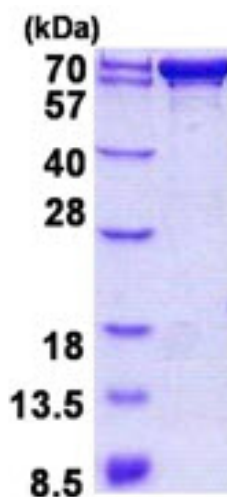
MGSSHHHHHH SGLVPRGSH MGSMTSTFNP RECKLSKQEG QNYGFFLRIE KDTEGHLVRV VEKCSPEAKA GLQDGDRLR  
INGVFVDKEE HMQVVDLVRK SGNVSTLLVL DGDSYEKAVK TRVDLDELGQ SQKEQGLSDN ILSPVMNGGV QTWTQPRLCY  
LVKEGGSYGF SLKTVQGGK VYMTDITPQG VAMRAGVLAD DHLIEVNGEN VEDASHEEVV EKVKKSGSRV MFLLVKEDT  
KRHVEQKIQF KRETASLKL PHQPRIVEMK KGSNGYGFYL RAGSEQKGQI IKDIDSGSPA EEAGLKNNDL VVAVNGESVE  
TLDHDSVVEM IRKGGDQTS L LVVDKETDNM YRLAHFSPFL YYQSQELPNG SVKEAPPTP TSLEVSSPPD TTEEVDHKPK  
LCRLAKGENG YGFHLNAIRG LPGSFIKEVQ KGGPADLAGL EDEDVIEVN GNVLDPEYE KVDRIQSSG KNVTLVCGK  
KAYDYFQAKK IPIVSSLADP LDTPPDSKEG IVVESNHDSH MAKERAHSTA SHSSNS EDT EM

## General References

Kocher O, Yesilaltay A, et al. (2003). *J Biol Chem.* 278(52):52820-5.  
Inoue J, Otsuki T, et al. (2004). *Am J Pathol.* 165(1):71-81.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)