

Recombinant Human PDZ domain containing 1, His-tagged

Cat. No. PDZK1-560H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PDZK1, 1-519aa, Human His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-519 a.a.
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 chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	59 kDa (542aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTSTFNP RECKLSKQEG QNYGFFLRIE KDTEGHLVRV VEKCSPEAKA GLQDGDRVLR INGVFVDKEE HMQVVDLVRK SGNSVTLLVL DGDSYEKAVK TRVDLKELGQ SQKEQGLSDN ILSPVMNGGV QTWTQPRLCY LVKEGGSYGF SLKTVQGKKG VYMTDITPQG VAMRAGVLAD

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DHLIEVNGEN VEDASHEEVV EKVKKSGSRV MFLLVDKETD KRHVEQKIQF
 KRETASLKLL PHQPRIVEMK KGSNGYGFYL RAGSEQKGQI IKDIDSGSPA
 EEAGLKNNDL VVAVNGESVE TLDHDSVVEM IRKGGDQTSI LVVDKETDNM
 YRLAHFSPFL YYQSQELPNG SVKEAPPTP TSLEVSSPPD TTEEVDHKPK
 LCRLAKGENG YGFHLNAIRG LPGSFIKEVQ KGGPADLAGL EDEDVIEVN
 GVNVLDEPYE KVVDRIQSSG KNVTLVCGK KAYDYFQAKK IPIVSSLADP
 LDTPPDSKEG IVVESNHDSH MAKERAHSTA SHSSSNS EDT EM

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name PDZK1 PDZ domain containing 1 [Homo sapiens]

Official Symbol PDZK1

Synonyms PDZK1; PDZ domain containing 1; Na(+)/H(+) exchange regulatory cofactor NHERF3; NHERF3; PDZD1; naPi-Cap1; PDZ-containing kidney protein 1; CFTR-associated protein of 70 kDa; sodium-hydrogen exchanger regulatory factor 3; na/Pi cotransporter C-terminal-associated protein 1; CAP70; CLAMP; NHERF-3;

Gene ID 5174

mRNA Refseq NM_001201325

Protein Refseq NP_001188254

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MIM	603831
UniProt ID	Q5T2W1
Chromosome Location	1q21
Function	PDZ domain binding; protein binding; scavenger receptor binding; transporter activity;

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