Recombinant Human PEF1, His-tagged

Cat. No. PEF1-3472H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PEF1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Penta-EF-hand domain containing 1, also known as PEF1, belongs to the penta-EF-hand protein family, which shares similarities to the apoptosis linked gene ALG-2. PEF1 heterodimerizes with PDCD6/ALG2 and dissociates from PDCD6/ALG2 in the presence of Ca (2+). Also, PEF1 proteins bind calcium and participate in a variety of calcium-dependent processes in vertebrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl
Molecular Weight	34.5 kDa (320aa), confirmed by MALDI-TOF
Purity	> 85% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASY PYRQGCPGAA GQAPGAPPGS YYPGPPNSGG QYGSGLPPGG GYGGPAPGGP YGPPAGGGPY GHPNPGMFPS GTPGGPYGGA APGGPYGQPP PSSYGAQQPG LYGQGGAPPN

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	VDPEAYSWFQ SVDSDHSGYI SMKELKQALV NCNWSSFNDE TCLMMINMFD KTKSGRIDVY GFSALWKFIQ QWKNLFQQYD RDRSGSISYT ELQQALSQMG YNLSPQFTQL LVSRYCPRSA NPAMQLDRFI QVCTQLQVLT EAFREKDTAV QGNIRLSFED FVTMTASRML
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	PEF1 penta-EF-hand domain containing 1 [Homo sapiens]
Synonyms	PEF1; penta-EF-hand domain containing 1; PEF1A; PEFLIN; peflin; PEF protein with a long N-terminal hydrophobic domain; Penta-EF hand domain-containing protein 1; ABP32
Gene ID	553115
mRNA Refseq	NM_012392
Protein Refseq	NP_036524
MIM	610033
UniProt ID	Q9UBV8
Chromosome Location	1p34
Function	calcium ion binding; protein heterodimerization activity

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