
Product Data Sheet

Product Name: PEF1 Human
 Cat. No.: GP24161
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peflin; PEF protein with a long N-terminal hydrophobic domain; Penta-EF hand domain-containing protein 1; PEF1; ABP32; PEF1A.		
Amino Acid Sequence	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASY PYRQGCPGAA GQAPGAPPGSYYPGPPNSGG QYGSGLPPGG GYGGPAPGGP YGPPAGGGPY GHPNPGMFPS GTPGGPYGGAAPGGPYGQPP PSSYGAQQPG LYGQGGAPPN VDPEAYSWFQ SVDSHSGYI SMKELKQALVNCNWSSFNDE TCLMMINMFD KTKSGRIDVY GFSALWKFIQ QWKNLFQQYD RDRSGSISYTELQQALSQMG YNLSPQFTQL LVSRYCPRSA NPAMQLDRFI QVCTQLQVLT EAFREKDTAVQGNIRLSFED FVTMTASRML.</p>		
Formulation	The PEF1 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.		

Introduction

Penta-EF-hand domain containing 1 (PEF1) is a member of the penta-EF-hand protein family, which shares similarities to the apoptosis linked gene ALG-2. PEF1 forms heterodimers with PDCD6/ALG2 and dissociates from PDCD6/ALG2 in the presence of Ca²⁺. Furthermore, PEF1 proteins bind calcium and participate in a various calcium-dependent processes in vertebrates.

Stability

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

PEF1 Human Recombinant fused with a36 amino acid His tag at N-terminus produced in

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

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E.Coli is a single, non-glycosylated, polypeptide chain containing 320 amino acids (1-284 a.a.) and having a molecular mass of 34.5kDa. The PEF1 is purified by proprietary chromatographic techniques.

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