## **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-140aa

**UniProt No.** P62963

NCBI Accession No. NP\_071956

Alternative Names Profilin-1, Profilin, Pfn1

# **PRODUCT SPECIFICATION**

**Molecular Weight** 17.5 kDa (164aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol1mM DTT

Purity

> 95% 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

### Description

Pfn1 also known as Profilin-1 is a ubiquitous actin monomer-binding protein belonging to the profilin family. This protein significantly enhances skin wound healing in-vitro and in-vivo that may be mediated by purinergic receptors. It is also active in endothelial cell migration and vessel sprouting. It is thought to regulate actin polymerization in response to extracellular signals. Recombinant rat Pfn1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



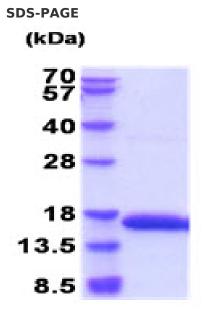
### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSHMAGWNA YIDSLMADGT CQDAAIVGYK DSPSVWAAVP GKTFVSITPA EVGVLVGKDR SSFFVNGLTL GGQKCSVIRD SLLQDGEFTM DLRTKSTGGA PTFNVTVTMT AKTLVLLMGK EGVHGGLINK KCYEMASHLR RSQY

### **General References**

Tamura M., et al (1996) Biochem. Biophys. Res. Commun. 222(3):683-7. Cheng YJ., et al (2015) World Gastroenterol. 21(8):2323-35.

# DATA



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

15% SDS-PAGE (3ug)

