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# Recombinant human Profilin 1/PFN1 protein

Catalog Number: ATGP0376

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-140aa

#### UniProt No.

P07737

#### **NCBI Accession No.**

NP 005013

#### **Alternative Names**

Profilin-1, Profilin I, Profilin, Pfn1, Actin binding protein

# PRODUCT SPECIFICATION

## **Molecular Weight**

15 kDa (140aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

Non-Tagged

# **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**

Profilin1 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 Profilin1 protein was expressed in E. coli and purified by using conventional



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chromatography techniques.

# **Amino acid Sequence**

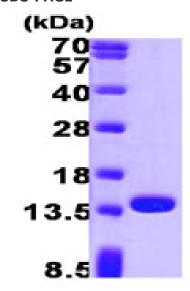
MAGWNAYIDN LMADGTCQDA AIVGYKDSPS VWAAVPGKTF VNITPAEVGV LVGKDRSSFY VNGLTLGGQK CSVIRDSLLQ DGEFSMDLRT KSTGGAPTFN VTVTKTDKTL VLLMGKEGVH GGLINKKCYE MASHLRRSQY

#### **General References**

Kwiatkowski DJ, et al. (1988) J. Biol. Chem. 263(12): 5910-5 Harbeck B., et al. (2000) J. Biol. Chem. 275(40): 30817-25.

## **DATA**

### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

