

Recombinant rat Profilin 1/PFN1 protein

Catalog Number: ATGP3173

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% glycerol 1mM 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.

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Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSHMAGWNA YIDSLMADGT CQDAAIVGYK DSPSVWAAVP GKTFVSITPA
EVGVLVGKDR SSFFVNGTL GGQKCSVIRD SLLQDGEFTM DLRTKSTGGA PTFNVTVTMT AKTLVLLMGK EGVHGGLINK
KCYEMASHLR RSQY

General References

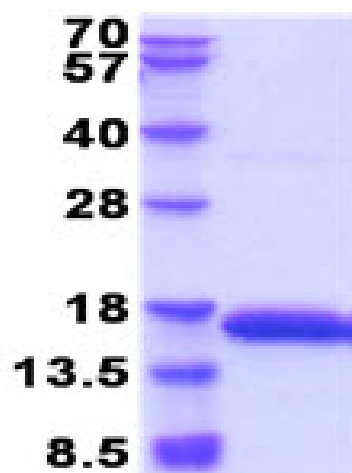
Tamura M., et al (1996) Biochem. Biophys. Res. Commun. 222(3):683-7.

Cheng YJ., et al (2015) World Gastroenterol. 21(8):2323-35.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)