

# Recombinant human Profilin 4/PFN4 protein

Catalog Number: ATGP0509

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-129aa

### UniProt No.

Q8NHR9

### NCBI Accession No.

NP\_955378

### Alternative Names

Profilin family member 4, Profilin-4, Profilin IV, Pfn4

## PRODUCT SPECIFICATION

---

### Molecular Weight

16.4 kDa (149aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### 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

Profilin-4, also known as PFN4, is a small actin-binding protein involved in the dynamic turnover and restructuring of the actin cytoskeleton. It is found in all eukaryotic organisms in most cells. Also, this is important for spatially and temporally controlled growth of actin microfilaments, which is an essential process in cellular locomotion and cell shape changes. Recombinant human Profilin-4, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Recombinant human Profilin 4/PFN4 protein

Catalog Number: ATGP0509

### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MSHLQSLLLD TLLGTKHVDS AALIKIQERS LCVASPGFNV TPSDVRTLNV GFAKNPLQAR  
REGLYFKGKD YRCVRADEYS LYAKNENTGV VVKTHLYLL VATYTEGMYP SICVEATESL GDYLRKKGS

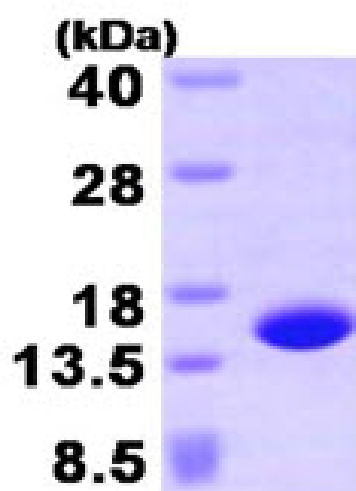
### General References

Witke W., et al. (2004) Trends Cell Biol. 14(8):461-9.  
Behnen M., et al. (2009) BMC Cell Biol. 10:34.

## DATA

---

### SDS-PAGE



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

15% SDS-PAGE (3ug)