

# Human PFN4 / Profilin 4 Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 15093-H07E

## General Information

### Gene Name Synonym:

PFN4

### Protein Construction:

A DNA sequence encoding the human PFN4 (NP\_955378.1) (Met1-Ser129) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** His

### Molecular Mass:

The recombinant human PFN4 consists of 144 amino acids and predicts a molecular mass of 16.2 KDa. It migrates as an approximately 14 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, 200mM Arg, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

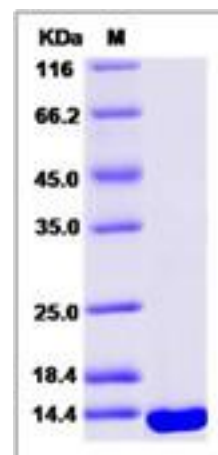
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

PFN4, also known as profilin 4, is a member of the profilin family. Profilin can be detected in all eukaryotic organisms. It plays an important role in the spatially and temporally controlled growth of actin microfilaments. Profilin is one of the most abundant actin monomer binders, but proteins such as CAP and (in mammals) thymosin  $\beta$ 4 have some functional overlaps with profilin. In contrast, ADF/cofilin has some properties that antagonize profilin action. PFN4 also functions in the dynamic turnover and restructuring of the actin cytoskeleton.

## References

1. Di Nardo A. et al., 2000, J Cell Sci. 113 (21): 3795-803.
2. Witke W. et al., 1998, EMBO J. 17 (4): 967-76.
3. Carlsson L. et al., 1977, J Mol Biol. 115 (3): 465-83.

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