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### Recombinant human Profilin 2/PFN2 protein

Catalog Number: ATGP0535

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-140aa

#### **UniProt No.**

P35080

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

AAH18049

#### **Alternative Names**

Profilin 2, PFL, Profilin 2 D3S1319E, PFN 2, PFN2, Profilin II, ProfilinII, Profilin2

#### PRODUCT SPECIFICATION

#### **Molecular Weight**

17.2 kDa (160aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) 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**

PFN2 is a ubiquitous actin monomer-binding protein belonging to the profilin family. This protein is ubiquitously expressed with highest expression in kidney, brain and skeletal muscle. Like other members of the profilin family, PFN2 functions as an actin monomer-binding protein that influences the structure of the cytoskeleton by regulating actin polymerization in response to extracellular signals. At high concentrations, it prevents the polymerization of actin whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Recombinant PFN2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified



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by using conventional chromatography techniques.

#### **Amino acid Sequence**

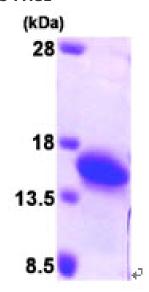
<MGSSHHHHHH SSGLVPRGSH> MAGWQSYVDN LMCDGCCQEA AIVGYCDAKY VWAATAGGVF QSITPIEIDM IVGKDREGFF TNGLALGAKK CSVIRDSLYV DGDCTMDIRT KSQGGEPTYN VAVGRAGRVL VFVMGKEGVH GGGLNKKAYS MAKYLRDSGF

#### **General References**

Gieslmann R., et al. (1995) Eur J Bilchem. 229(3):621-8. Reinhard M., et al. (1995) EMBO J. 14(8):1583-9.

#### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)4

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