

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 AIVGYCDAY VWAATAGGVF QSITPIEIDM
IVGKDREGFF TNGALGAKK CSVIRDSLYV DGDCTMDIRT KSQGGEPTYN VAVGRAGRVL VFVMGKEGVH GGGLNKKAYS
MAKYLRDSGF

General References

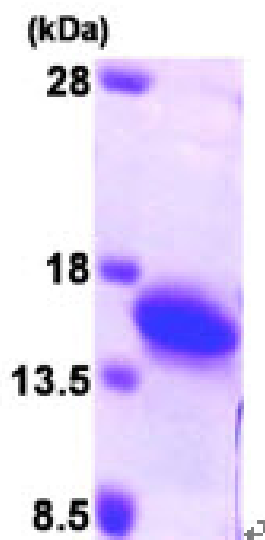
Gieslmann R., et al. (1995) Eur J Biochem. 229(3):621-8.

Reinhard M., et al. (1995) EMBO J. 14(8):1583-9.

DATA

SDS-PAGE

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



15% SDS-PAGE (3ug)