

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.

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Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH> MSHLQSLLLD TLLGTHKVD S AALIKIQERS LCVASPGFNV TPSDVRTLNV
GFAKNPLQAR REGLYFKGKD YRCVRADEYS LYAKNENTGV VVKTHLYLL VATYTEGMYP SICVEATESL GDYLRKKGS

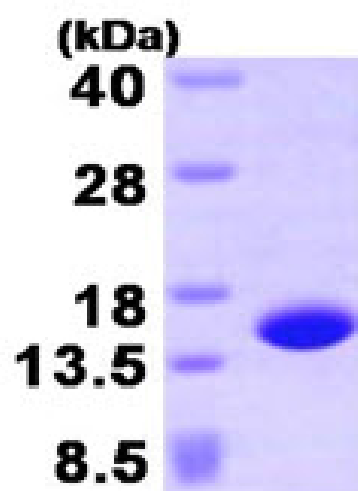
General References

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)