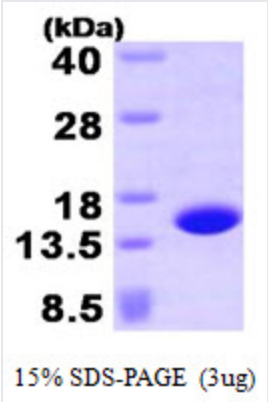
Profilin-4 (PFN4) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Profilin-4 (PFN4), Recombinant Protein
Full Product Name	Profilin-4, 1-129aa, Human, His tag, E Coli
Product Gene Name	PFN4 recombinant protein
Product Synonym Names	Profilin IV; PFN4; Profilin family member 4.
Sequence	MGSSHHHHHH SSGLVPRGSH MSHLQSLLLD TLLGTKHVDS AALIKIQERS LCVASPGFNV TPSDVRTLVN GFAKNPLQAR REGLYFKGKD YRCVRADEYS LYAKNENTGV VVVKTHLYLL VATYTEGMYP SICVEATESL GDYLRKKGS
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Purity/Purification	> 95% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	16.4 kDa (149aa), confirmed by MALDI-TOF.
3D Structure	ModBase 3D Structure for Q8NHR9
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for PFN4 recombinant protein	Cytoskeleton
Applications Tested/Suitable for PFN4 recombinant protein	SDS-PAGE
Related Product Information for PFN4 recombinant protein	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.
Product References and Citations for PFN4 recombinant protein	Witke W., et al. (2004) Trends Cell Biol. 14 (8):461-9. ; Behnen M., et al. (2009) BMC Cell Biol. 10:34.;
Other Notes	Small volumes of PFN4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PFN4 purchase	MBS203434 is a recombinant protein targeting PFN4. Also known as Profilin-4, 1-129aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of PFN4 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PFN4. It may not necessarily be applicable to this product.

NCBI GI #	40786418
NCBI GeneID	375189
NCBI Accession #	NP_955378
UniProt Primary Accession #	Q8NHR9
UniProt Secondary Accession #	Q53TL9
UniProt Related Accession #	Q8NHR9
GenBank Nucleotide #	NM_199346.2
NCBI Official Full Name	profilin-4
NCBI Official Synonym Full Names	profilin family member 4
NCBI Official Symbol	PFN4
UniProt Protein Name	Profilin-4
UniProt Synonym Protein Names	Profilin IV
Protein Family	Profilin
UniProt Gene Name	PFN4
NCBI Protein Information	profilin-4
UniProt Comments for PFN4	Binds to phosphatidylinositol 3-phosphate (PtdIns3P), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), phosphatidylinositol 4-phosphate (PtdIns4P) and phosphatidic acid (PA). Does not bind to actin (PubMed:19419568), contrary to other family members.
Research Articles on PFN4	**1.** Observational study of gene-disease association. (HuGE Navigator)
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