

Recombinant Human Profilin 2, His-tagged

Cat. No. PFN2-2361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PFN2 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 17.2 kDa (160aa).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAGWQSYVDN LMCDGCCQEA AIVGYCDAKY V WA ATAGGVF QSITPIEIDM IVGKDREGFF TNGALGAKK CSVIRDSLYV DGD CTMDIRT KSQGGPEPTYN VAVGRAGRVL VFVMGKEGVH GGGLNKKAYS MA KYL

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RDSGF.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

PFN2 profilin 2 [Homo sapiens]

Synonyms

profilin 2; PFL; D3S1319E; PFN2; profilin-2; profilin II; Profilin II

Gene ID

5217

mRNA Refseq

NM_002628

Protein Refseq

NP_002619

MIM

176590

UniProt ID

P35080

**Chromosome
Location**

3q25.1-q25.2

Pathway

Regulation of actin cytoskeleton; Axon guidance

Function

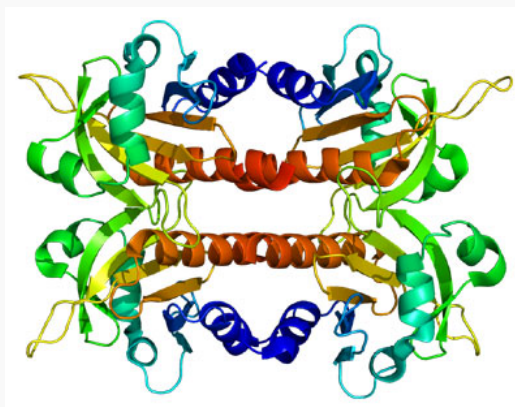
phosphatidylinositol-4,5-bisphosphate binding; actin binding; protein binding

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