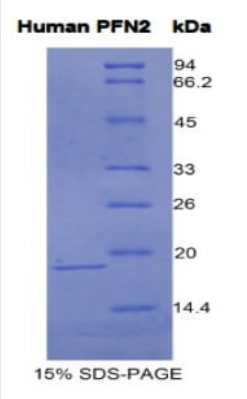
Profilin 2 (PFN2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Profilin 2 (PFN2), Recombinant Protein
Full Product Name	Recombinant Profilin 2 (PFN2)
Product Gene Name	PFN2 recombinant protein
Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed below. MGHHHHHHSG SEF-QSYVDN LMCDGCCQEA AIVGYCDAKY VWAATAGGVF QSITPIEIDM IVGKDREGFF TNGLTLGAKK CSVIRDSLYV DGDCTMDIRT KSQGGEPTYN VAVGRAGRVL VFVMGKEGVH GGGLNKKAYS MAKYLRDSGF
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: PFN2 (MBS2004654) Immunogen: PFN2 (MBS2010331)
Matching Pairs	Biotin Conjugated Antibody: PFN2 (MBS2004839) Immunogen: PFN2 (MBS2010331)
Matching Pairs	APC-CY7 Conjugated Antibody: PFN2 (MBS2075961) Immunogen: PFN2 (MBS2010331)
Matching Pairs	PE Conjugated Antibody: PFN2 (MBS2075962) Immunogen: PFN2 (MBS2010331)
Matching Pairs	APC Conjugated Antibody: PFN2 (MBS2075963) Immunogen: PFN2 (MBS2010331)
Matching Pairs	Cy3 Conjugated Antibody: PFN2 (MBS2075964) Immunogen: PFN2 (MBS2010331)
Matching Pairs	FITC Conjugated Antibody: PFN2 (MBS2075965) Immunogen: PFN2 (MBS2010331)
Matching Pairs	HRP Conjugated Antibody: PFN2 (MBS2075966) Immunogen: PFN2 (MBS2010331)
Molecular Weight	16.1kDa
Chromosome Location	Chromosome: 3; NC_000003.11 (149682691..149688741, complement). Location: 3q25.1
OMIM	176590
3D Structure	ModBase 3D Structure for P35080
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

Organism	Homo sapiens (Human)
Expression System	Prokaryotic expression
Residues	Gln5~Phe140 (Accession # P35080) with N-terminal His-Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for PFN2 recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for PFN2 recombinant protein	MBS2010331 is a recombinant protein targeting PFN2. Also known as Recombinant Profilin 2 (PFN2). Host: E Coli.
Other Notes	Small volumes of PFN2 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.



SDS-Page of PFN2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PFN2. It may not necessarily be applicable to this product.

NCBI GI #	4505751
NCBI GeneID	5217
NCBI Accession #	NP_002619.1
UniProt Primary Accession #	P35080
UniProt Secondary Accession #	Q4VBQ4; Q8WVF9; Q9HBK2; B2R4C8; D3DNI4
UniProt Related Accession #	P35080
GenBank Nucleotide #	NM_002628.4
NCBI Official Full Name	profilin-2 isoform b
NCBI Official Synonym Full Names	profilin 2
NCBI Official Symbol	PFN2
NCBI Official Synonym Symbols	PFL; D3S1319E
UniProt Protein Name	Profilin-2
UniProt Synonym Protein Names	Profilin II

UniProt Gene Name	PFN2
UniProt Entry Name	PROF2_HUMAN
NCBI Protein Information	profilin-2; profilin II
NCBI Summary for PFN2	The protein encoded by this gene is a ubiquitous actin monomer-binding protein belonging to the profilin family. It is thought to regulate actin polymerization in response to extracellular signals. There are two alternatively spliced transcript variants encoding different isoforms described for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for PFN2	profilin 2: Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Belongs to the profilin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Actin-binding Chromosomal Location of Human Ortholog: 3q25.1 Cellular Component: cytoskeleton; cytoplasm; terminal button Molecular Function: actin monomer binding; phosphatidylinositol-4,5-bisphosphate binding; protein binding; adenyl-nucleotide exchange factor activity Biological Process: positive regulation of actin filament polymerization; negative regulation of actin filament polymerization; positive regulation of ATPase activity; positive regulation of stress fiber formation; positive regulation of actin filament bundle formation; actin cytoskeleton organization and biogenesis; positive regulation of peptidyl-serine phosphorylation
Research Articles on PFN2	**1.** Oral squamous cell carcinomas with weak PFN2 expression were associated with a significantly worse prognosis than strongly expressed tumours.
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