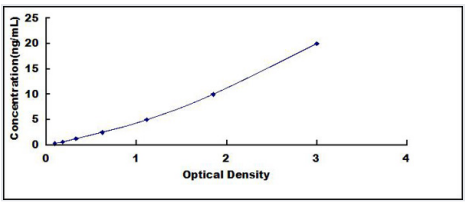
Profilin 2 (PFN2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Profilin 2 (PFN2), ELISA Kit
Full Product Name	Human Profilin 2 (PFN2) ELISA Kit
Product Gene Name	PFN2 elisa kit
Product Synonym Names	PFL
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.137ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Profilin 2 (PFN2). No significant cross-reactivity or interference between Profilin 2 (PFN2) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
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.
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Profilin 2 (PFN2) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Profilin 2 (PFN2) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for PFN2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Profilin 2 (PFN2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Profilin 2 (PFN2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Profilin 2 (PFN2), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Profilin 2 (PFN2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of PFN2 elisa kit 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 PFN2 purchase	MBS2707676 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Profilin 2 (PFN2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PFN2. The ELISA analytical biochemical technique of the MBS2707676 kit is based on PFN2 antibody-PFN2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PFN2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PFN2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PFN2 elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	20178322
NCBI GeneID	5217
NCBI Accession #	P35080.3
UniProt Primary Accession #	P35080
UniProt Related Accession #	P35080
NCBI Official Full Name	Profilin-2
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
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; protein binding; phosphatidylinositol-4,5-bisphosphate binding; adenyl-nucleotide exchange factor activity Biological Process: positive regulation of actin filament polymerization; positive regulation of ATPase activity; negative regulation of actin filament polymerization; 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.** Results suggest that PFN2 promotes the proliferation and metastasis of HNSC by activating the PI3K/Akt/beta-catenin signaling pathway.
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