

# Active Recombinant Full Length Human PFN1 Protein, C-Flag-tagged

**Cat. No.** PFN1-624HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human PFN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a member of the profilin family of small actin-binding proteins. The encoded protein plays an important role in actin dynamics by regulating actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome, and the encoded protein may also play a role in Huntington disease. Multiple pseudogenes of this gene are located on chromosome 1. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | Pull-down assay                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 14.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDR<br>SSFYVNGLTLLGGQK CSVIRDSLLQDGEFSMDLRTKSTGGAPTFNVTVTKTDKTLVLL<br>MGKEGVHGGLINKKCYEMASHLRRSQYTRTRPLEQKLISEEDLAANDILDYKDDDDK<br>V                                                                                                                                                                                                                                     |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, Stem cell - Pluripotency                                                                                                    |
| <b>Protein Pathways</b> | Regulation of actin cytoskeleton                                                                                                              |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

|                        |                                          |
|------------------------|------------------------------------------|
| <b>Gene Name</b>       | PFN1 profilin 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | PFN1                                     |
| <b>Synonyms</b>        | ALS18                                    |
| <b>Gene ID</b>         | 5216                                     |
| <b>mRNA Refseq</b>     | NM_005022.4                              |
| <b>Protein Refseq</b>  | NP_005013.1                              |

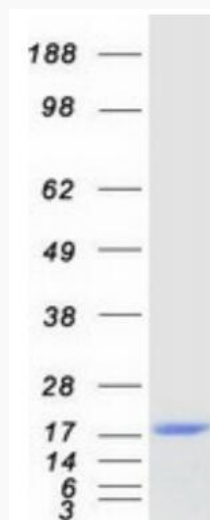
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MIM 176610

UniProt ID P07737



Coomassie blue staining of purified PFN1 protein.

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