

## Recombinant Full Length Human presenilin enhancer, gamma-secretase subunit Protein, Flag tagged

Cat. No. PSENE-33HFL    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant protein of human presenilin enhancer 2 homolog (C. elegans) (PSENE) with C-Myc/DDK tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ProteinLength    | 1-101aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description      | Presenilins, which are components of the gamma-secretase protein complex, are required for intramembraneous processing of some type I transmembrane proteins, such as the Notch proteins and the beta-amyloid precursor protein. Signaling by Notch receptors mediates a wide range of developmental cell fates. Processing of the beta-amyloid precursor protein generates neurotoxic amyloid beta peptides, the major component of senile plaques associated with Alzheimer's disease. This gene encodes a protein that is required for Notch pathway signaling, and for the activity and accumulation of gamma-secretase. Mutations resulting in haploinsufficiency for this gene cause familial acne inversa-2 (ACNINV2). Alternative splicing results in multiple transcript variants. |
| Tag              | C-Flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Molecular Mass   | 11.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>    | MNLERSNEEKLNLCKRYLGGFAFLPFLWLVNIFWFFREAFVLPAYTEQSQIKGYV<br>WRSVAGFLFWVIVLTWITIFQYRPRWGALGDYLSFTIPLGTPTRTRPLEQKLISEED<br>LAANDILDYKDDDDKV             |
| <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>  | > 0.05 µg/µL as determined by microplate BCA method                                                                                                  |
| <b>Storage Buffer</b> | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                 |
| <b>Notes</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PSENEN presenilin enhancer, gamma-secretase subunit [ Homo sapiens (human) ]                                                                                                                                  |
| <b>Official Symbol</b> | PSENEN                                                                                                                                                                                                        |
| <b>Synonyms</b>        | PSENEN; presenilin enhancer, gamma-secretase subunit; PEN2; PEN-2; MDS033; ACNINV2; MSTP064; gamma-secretase subunit PEN-2; hematopoietic stem/progenitor cells protein MDS033; presenilin enhancer 2 homolog |
| <b>Gene ID</b>         | 55851                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_172341                                                                                                                                                                                                     |

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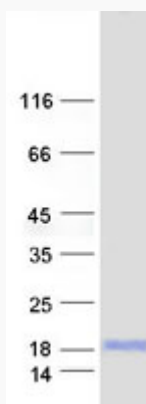
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**Protein Refseq** NP\_758844

**MIM** 607632

**UniProt ID** Q9NZ42

**SDS-PAGE**



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