

## Recombinant Mouse Serpinf1, FLAG-tagged

**Cat. No.** Serpinf1-457M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Mouse PEDF (aa 20-417) is fused at the C-terminus to a FLAG-tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 20-417 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>Pigment epithelium-derived factor (PEDF) is a 47kDa secreted glycoprotein that belongs to the non-inhibitory serpin family group. PEDF is widely expressed in adult and fetal tissues, including brain, spinal cord, plasma, bone, prostate, pancreas, heart and lung. PEDF acts as an angiogenesis inhibitor with neurotrophic, immunomodulation and antitumor properties. It functions as anti-angiogenic agent by counterbalancing the proangiogenic effect of VEGF. PEDF is one of the most abundant proteins released by adipocytes and induces insulin resistance in adipocytes and human skeletal muscle cells. Recently, it has been reported that PEDF is sufficient to maintain the self-renewal of pluripotent human embryonic stem cells.</p> |
| <b>Form</b>             | Lyophilized. Contains PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | ~47kDa (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | ≥95% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Stability</b>        | Stable for at least 6 months after receipt when stored at -20°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Short Term Storage: +4°C; Long Term Storage: -20°C. After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>    | 0.1mg/ml after reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Serpinf1 serine (or cysteine) peptidase inhibitor, clade F, member 1 [ Mus musculus ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>  | Serpinf1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | SERPINF1; serine (or cysteine) peptidase inhibitor, clade F, member 1; pigment epithelium-derived factor; SDF-3; caspin; serpin F1; serpin-F1; alpha-2 antiplasmin; stromal cell derived factor 3; stromal cell-derived factor 3; pigment epithelium derived factor; serine (or cysteine) proteinase inhibitor, clade F, member 1; serine (or cysteine) proteinase inhibitor, clade F), member 1; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; Pedf; Sdf3; EPC-1; Pedfl; AI195227; |
| <b>Gene ID</b>          | 20317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_011340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_035470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>         | serine-type endopeptidase inhibitor activity;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |