

## Serpin E2/PN1 Recombinant Protein | Serpine2 recombinant protein

Recombinant Mouse Serpin E2/PN1 Protein (C-His)

|                               |                            |
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| CATALOG #<br><b>AAA174710</b> | HOST<br><b>Human Cells</b> |
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### PRODUCT SYNONYMS

Serpin E2/PN1; Recombinant Mouse Serpin E2/PN1 Protein (C-His); Glia-derived nexin; GDN; Peptidase inhibitor 7; PI-7; Protease nexin 1; PN-1; Protease nexin I; Serine protease-inhibitor 4; Serpin E2; Pi7; Pn1; Spi4; Serpine2 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| Host                    | Human Cells                                                                       |
| Purity/Purification     | >95% as determined by reducing SDS-PAGE.                                          |
| Form/Format             | Supplied as a 0.2 µm filtered solution of 20mM Tris, 150 mM NaCl, pH8.0.          |
| Sequence                | Ser20-Pro3 97                                                                     |
| Sequence Length         | 397                                                                               |
| Species                 | Mouse                                                                             |
| Endotoxin               | < 1.0 EU per µg as determined by the LAL method.                                  |
| Fusion Tag              | C-His                                                                             |
| Preparation and Storage | Store at < -20 degree C, stable for 6 months. Please minimize freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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| Related Product Information for Serpine2 recombinant protein | <p>Protein Construction: Recombinant Mouse Serpin E2 is produced by our mammalian expression system and the target gene encoding Ser20-Pro397 is expressed with a 10His tag at the C-terminus.</p> <p>Background: Serpin E2 is a member of the Serpin superfamily of the serine protease inhibitors. Serpin E2 is a potent inhibitor of thrombin, plasmin and plasminogen activators. It is differentially expressed during neuronal differentiation and is able to transform human embryonic kidney cells into neuron-like cells. Its over-expression in mice leads to progressive neuronal and motor dysfunction in these animals. It is also over-expressed in the majority of pancreatic carcinoma as well as gastric and colorectal cancer samples whereas it is weakly expressed in all normal pancreas and chronic pancreatitis tissue samples. It plays an important role in controlling male fertility because its knockout male mice show a marked impairment in fertility from the onset of sexual maturity and its abnormal expression is found in the semen of men with seminal dysfunction.</p> |
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### NCBI AND UNIPROT INFORMATION

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| NCBI GI #                 | 6678099                                                            |
| NCBI GeneID               | 20720                                                              |
| NCBI Accession #          | NP_033281.1                                                        |
| NCBI GenBank Nucleotide # | NP_033281.1                                                        |
| UniProt Accession #       | Q07235                                                             |
| Molecular Weight          | Molecular Mass: 43.2kDa<br>Actual Protein Molecular Mass: 50-55kDa |

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| NCBI Official Full Name          | glia-derived nexin                                          |
| NCBI Official Synonym Full Names | serine (or cysteine) peptidase inhibitor, clade E, member 2 |
| NCBI Official Symbol             | Serpine2                                                    |
| NCBI Official Synonym Symbols    | PI7; PI-7; PN-1; Spi4; PAI-1; B230326M24Rik                 |
| NCBI Protein Information         | glia-derived nexin                                          |
| UniProt Protein Name             | Glia-derived nexin                                          |
| UniProt Gene Name                | <b>Serpine2</b>                                             |
| UniProt Synonym Gene Names       | Pi7; Pn1; Spi4; GDN; PI-7; PN-1                             |
| UniProt Entry Name               | GDN_MOUSE                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/serpine2-recombinant-protein-human/174710>