

## Recombinant Rabbit Serpin Peptidase Inhibitor, Clade E (nexin, plasminogen activator inhibitor type 1), Member 1

Cat. No. SERPINE1-1866R Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | This stable mutant of rabbit SERPINE1 contains a single conservative mutation (Isoleucine 91 to Leucine) that yields PAI-1 with an enhanced half-life as compared to the wild type.                                                                                                                                                                                                           |
| <b>Species</b>          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | SERPINE1 is a protein that in humans is encoded by the SERPINE1 gene. SERPINE1 is a serine protease inhibitor (serpin) that functions as the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). |
| <b>Concentration</b>    | 2.5mg/ml                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Liquid in 0.05 M Sodium Acetate + 0.1M NaCl + 1mM EDTA, pH 5.0.                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Weight</b> | 43 kDa                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin Level</b>  | <0.1 ng/μg of protein.                                                                                                                                                                                                                                                                                                                                                                        |

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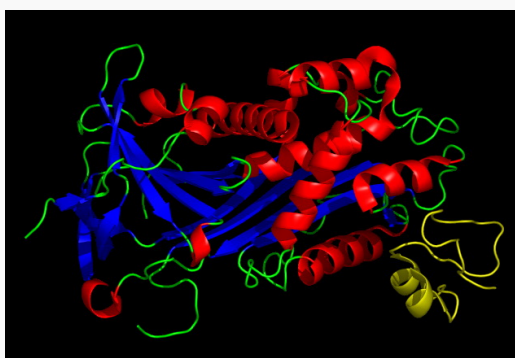
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|                          |                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Activity</b> | 80%active by titration with tPA.                                                                                                                      |
| <b>Storage</b>           | Storeat -80°C. Stable for 3years from delivery. For long term use, divide into working aliquots andfreeze at -80°C. Avoid repeatedfreeze-thaw cycles. |
| <b>OfficialSymbol</b>    | SERPINE1                                                                                                                                              |

## GENE INFORMATION

|                       |                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | SERPINE1 serpin peptidaseinhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1[ <i>Oryctolagus cuniculus</i> ]             |
| <b>Synonyms</b>       | SERPINE1; serpinpeptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1),member 1; putative plasminogen activator inhibitor-1 |
| <b>Gene ID</b>        | 100009588                                                                                                                                         |
| <b>mRNA Refseq</b>    | XM_002722823                                                                                                                                      |
| <b>Protein Refseq</b> | XP_002722869                                                                                                                                      |

PAI-1 in complexwith  
the SMB domain of  
Vitronectin PDB  
1OC0



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