

Bioactive

# SERPINF1 (Human) Recombinant Protein

Catalog # P7160

Size 20 ug

## Specification

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Human SERPINF1 (P36955, 20 a.a. - 418 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .                                                                                                                                                                                                                                                                                                                                            |
| Sequence             | QNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLA AAVSNFGYDLYRVRSSSTPTTNVLLSPLSVATALSALSLGAEQRTESIHRALYDLISSPDHGTYKELLDVTAPQKNLKSASRVFEKKLRIKSSFVAPLEKSYGTRPRVLTGNPRDLQEINNWWQAQMGKGLARSTKEIPDEISILLGVAHFKGQWVTKFDSRKTSLEDFYLDEERTVRVPMMSDPKAVLRYGLDSDLSCIAQLPLTGSMISIFFLPLKVTQNLTLIEESLTSEFIHDIDRELKTVQAVLTPPKLKLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKPIKLTQVEHRA_x005F_x005F_x005F_x000D__x005F_x000D__x000D_361GFEWNEDGAGTTPSPGLQPAHLTFPLDYHLNQPFIFVLRD TDTGALLFIGKILDPRGP |
| Host                 | Escherichia coli                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Theoretical MW (kDa) | 44.4                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form                 | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation Method   | <i>Escherichia coli</i> expression system                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity               | > 97% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Endotoxin Level      | < 1 EU per 1 ug of protein (determined by LAL method)                                                                                                                                                                                                                                                                                                                                                                                                     |
| Activity             | The ED <sub>50</sub> was determined by the ability to enhance the adhesion of human Saos2 cells to bovine Collagen I coated plate is < 2.0 ng/ml, corresponding to a specific activity of > 5.0 x 10 <sup>5</sup> IU/mg.                                                                                                                                                                                                                                  |
| Storage Buffer       | Lyophilized from sterile distilled Water up to 0.1 - 1.0 mg/ml                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage Instruction  | Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                            |

## Applications

- Functional Study

- SDS-PAGE

## Gene Info — SERPINF1

|                    |                                                                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5176</a>                                                                                                                                                                              |
| Protein Accession# | <a href="#">P36955</a>                                                                                                                                                                            |
| Gene Name          | SERPINF1                                                                                                                                                                                          |
| Gene Alias         | EPC-1, PEDF, PIG35                                                                                                                                                                                |
| Gene Description   | serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1                                                                                            |
| Omim ID            | <a href="#">172860</a>                                                                                                                                                                            |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                         |
| Gene Summary       | The PEDF gene is a member of the serpin gene family. Serpins are a group of serine protease inhibitors, some of which have also been reported to exhibit neurotrophic activity.[supplied by OMIM] |
| Other Designations | pigment epithelium-derived factor proliferation-inducing protein 35 serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1         |

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