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 *Escherichia coli*.
Sequence	QNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLAAAVSNFGYDLYRVRSSTSPTTNVLLSPL SVATALSALSLGAEQRTESIIHRALYYDLISSPDIHGTYKELLDTVTAPQKNLKSASRIVFEKKLRIKS SFVAPLEKSYGTRPRVLTGNPRLDLQEINNWVQAQMKGKLARSTKEIPDEISILLLGVAHFKGQWV TKFDSRKTSLEDFYLDEERTVRVPMMSDPKAVLRYGLDSDLSCKIAQLPLTGSMSIIFFLPLKVTQ NLTLIEESLTSEFIHDIDRELKTVQAVLTVPKLKLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKPIKL TQVEHRA_x005F_x005F_x005F_x000D__x005F_x000D__x000D_ 361GFEWNEDGAGTTPSPG LQPAHLTFPLDYHLNQPFIFVLRDTDTGALLFIGKILDPRGP
Host	Escherichia coli
Theoretical MW (kDa)	44.4
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The ED_{50} 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 10^5 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

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- SDS-PAGE

Gene Info — SERPINF1

Entrez GeneID	5176
Protein Accession#	P36955
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	172860
Gene Ontology	Hyperlink
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

Disease

- Cardiovascular Diseases
- Choroid Diseases
- Choroidal Neovascularization
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Retinopathy
- Edema

- Genetic Predisposition to Disease

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- Macular Degeneration

- Retinopathy of Prematurity

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