Recombinant Human Serpin Peptidase Inhibitor, Clade F (Alpha-2 Antiplasmin, Pigment Epithelium Derived Factor), Member 1, His-tagged

Cat. No. SERPINF1-5118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SERPINF1 protein containing a natural variant M72T was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	20-418 a.a.
Description	PEDF, also known as SERPINF1, is an extracellular neurotrophic agent, first identified as a secreted product in conditioned medium from cultured fetal human retinal pigment epithelial (RPE) cells. It was reported that PEDF isolated from medium conditioned by human fetal RPE primary cultures promotes neurite outgrowth in cultured human retinoblastoma Y-79 cells. PEDF is also a member of the serpin family, a group of serine protease inhibitors. As PEDF does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol.
Purity	> 85% by SDS - PAGE

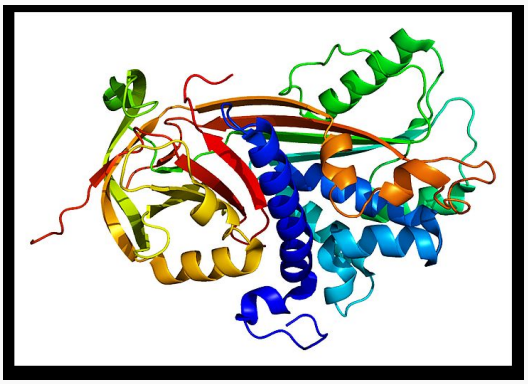
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Sequence	20-418 amino acids: MGSSHHHHHH SSGLVPRGSH MQNPASPPEE GSPDPDSTGA LVEEEDPFFK VPVNKLAAAV SNFGYDLYRV RSSMSPTTNV LLSPLSVATA LSALSLGAEQ RTESIIHRAL YYDLISSPDI HGTYKELLDT VTAPQKNLKS ASRIVFEKKL RIKSSFVAPL EKSYGTRPRV LTGNPRLDLQ EINNWVQAQM KGKLARSTKE IPDEISILLL GVAH
Molecular Mass	46.7 kDa (420 aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	SERPINF1 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 [Homo sapiens]
Official Symbol	SERPINF1
Synonyms	SERPINF1; EPC-1; PEDF; PIG35; pigment epithelium-derived factor; proliferation-inducing protein 35; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; SerpinF1; EPC1; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigmentepithelium derived factor), member 1; pigment epithelium-derived factor; Serpin-F1; proliferation-inducing protein 35
Gene ID	5176
mRNA Refseq	NM_002615

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Protein Refseq	NP_002606
MIM	172860
UniProt ID	P36955
Chromosome Location	17p13.3
Function	serine-type endopeptidase inhibitor activity
PDB rendering basedon 1imv.	

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