

Recombinant Human SERPINF1, FLAG-tagged

Cat. No. SERPINF1-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINF1 produced in HEK293 cells is a single, glycosylated, polypeptide chain containing 410 amino acids and having a molecular mass of 45.6 kDa. The Human Serpin-F1 is fused to FLAG tag at N-Terminus. The Human PEDF is purified by proprietary chromatographic techniques.
Species	Human
Source	HEK293
Protein Length	20-418 a.a.
Description	PEDF is a neurotrophic protein that induces extensive neuronal differentiation in retinoblastoma cells. SerpinF1 is a potent inhibitor of angiogenesis. EPC1 doesn't undergo the stressed to relaxed conformation transition characteristic as of the active serpins since it exhibits no serine protease inhibitory activity. Aqueous humour level of asymmetric dimethylarginine is correlated with PEDF in humans. PEDF and VEGF structural changes in blood vessel wall play an important role in the pathophysiology of PD patients. PEDF-overexpressing tumors exhibited reduced intratumoral angiogenesis. SerpinF1 is a new promising approach for the treatment of osteosarcoma. Levels of the natural ocular anti-angiogenic factor SerpinF1 (PEDF) is associated with proliferative retinopathy. PEDF blocks angiogenic effects of leptin through its anti-oxidative properties.
Purity	Greater than 95% as determined by SDS-PAGE.

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Amino Acid Sequence	QNPASPPEEGSPDPDSTGALVEEEDPFFKVPVNKLAAAVS NFGYDLRV R SSTSP TTNVLLSPLSVATALSALS LGAEQRTESIHRALYYDLISSPD IHGTYKELLDTVTAP Q KNLKSASRIVFEKKLRIKSSFVAPLEKSYGTRPRVLTGNPRLDLQE INN WVQ AQ MK GKLARSTKEI PDEISILLGLVAHFKGQWVKFDSRKTSLDFYLDEERTVRVP M MS DPKAVLRYGLDSDLCKIAQLPLTGSM SIIFFLPLKVTQNLTLIEESLTSEFIHDID REL KTVQAVLTVPKLKLSYEGEVTKSLQEMKLQSLFDSPDFSKITGKPIKL TQV EHR AGF EWNEDGAGTTPSPGLQPAHLTFPLDYHLNQPFIFVLRDTDTG ALLFIGKILDP R GP A AADYKDDDDK.
Formulation	The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 20mM NaCl pH-7.5.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	Add Add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.
Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.
GENE INFORMATION	
Gene Name	SERPINF1 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 [Homo sapiens]
Synonyms	SERPINF1; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; PEDF; EPC-1; PIG35; SERPINF1; pigment epithelium-derived factor; serpin F1; serpin-F1; proliferation-inducing protein 35; cell proliferation-inducing gene 35 protein; serpin (or cysteine) proteinase inhibitor, clade

F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; pigment epithelium-derived factor; proliferation-inducing protein 35

Gene ID [5176](#)

mRNA Refseq [NM_002615](#)

Protein Refseq [NP_002606](#)

MIM [172860](#)

UniProt ID [P36955](#)

Chromosome Location 17p13.1

Function serine-type endopeptidase inhibitor activity

PDB rendering based on 1imv.

