

## PEDF Human, HEK

**Description:** PEDF Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain containing a total of 410 amino acids, having a molecular mass of 45.6 kDa and fused to an 11 aa FLAG tag at C-Terminus. The Human PEDF is purified by proprietary chromatographic techniques.

**Synonyms:** Pigment Epithelium-Derived, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35.

**Source:** HEK 293.

**Physical Appearance:** Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** QNPASPPEEG SPDPDSTGAL VEEEDPFFKV PVNKLAAVS  
NFGYDLYRVR SSTSPPTNVL LSPLSVATAL SALS LGAEQR TESIIHRALY YDLISSPDIH  
GTYKELLDTV TAPQKNLKSA SRIVFEKKLR IKSSFVAPLE KSYGTRPRVL TGNPRLDLQE  
INNWWQAQMK GKLARSTKEI PDEISILLG VAHFKGQWVT KFDSRKTSLE DFYLDEERTV  
RVPMMSDPKA VL

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

The filtered (0.4

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Introduction:**

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 humor level of asymmetric dimethylarginine is correlated with PEDF in humans. ADMA and PEDF levels are increased in response to inflammation in uveitis. Lack of PEDF expression is a potent factor for the enhancement of tumor growth and angiogenesis in breast cancer. PEDF & VEGF genes contribute to the development of diabetic retinopathy. 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. VEGF secreted by retinal pigment epithelial cells upregulates PEDF expression via VEGFR-1 in an

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autocrine manner. Sentrin-F1 concentration in the aqueous humor of diabetic patients predicts who will develop progression of retinopathy. PEDF blocks angiogenic effects of leptin through its anti-oxidative properties.



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