

PEDF, human recombinant protein**Pigment epithelium-derived factor, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35****Catalog # PBV10522r****Specification**

PEDF, human recombinant protein - Product info

Primary Accession

[P36955](#)

Calculated MW

44.5 kDa KDa**PEDF, human recombinant protein - Additional Info**

Gene ID

5176

Gene Symbol

PEDF**Other Names**

Pigment epithelium-derived factor, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35

Gene Source

Human

Source

E. coli

Assay&Purity

SDS-PAGE; ≥95%

Assay2&Purity2

HPLC; ≥95%

Recombinant

Yes**Application Notes**

The sterile filtered concentrated (1 mg/ml) protein solution was lyophilized with 20 mM phosphate buffer & 150 mM NaCl pH-7.4.

Format

Lyophilized protein

Storage

-20°C; The sterile filtered concentrated (1 mg/ml) protein solution was lyophilized with 20 mM PBS & 150 mM NaCl pH-7.4.

PEDF, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PEDF, human recombinant protein - Images**PEDF, human recombinant protein - Background**

PEDF is a noninhibitory serpin with neurotrophic, anti-angiogenic, and anti-tumorigenic properties. PEDF is a 50,000 dalton glycoprotein created and secreted in many tissues all the way through the body. A key component of the anti-angiogenic action of PEDF is the induction of apoptosis in proliferating endothelial cells. Additionally, PEDF is capable to inhibit the activity of angiogenic factors such as VEGF and FGF-2. The recognition of a lipase-linked cell membrane receptor for PEDF (PEDF-R) that binds to PEDF with high affinity should facilitate further elucidation of the underlying mechanisms of this pluripotent serpin. The unique range of PEDF activities associate it as a potential therapeutic agent for the treatment of vasculature related neurodegenerative diseases such as age-related macular degeneration (AMD) and proliferative diabetic retinopathy (PDR). PEDF in addition has the potential to be functional in the treatment of various angiogenesis-related diseases including a number of cancers. Recombinant human PEDF produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 400 amino acids and having a molecular mass of 44.5 kDa.

PEDF, human recombinant protein - References

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