

Recombinant Human PEDF

CATALOG #: 4988-20 20 μg 4988-100 100 μg

4988-1000 1 mg

LOT #:

SYNONYMS: Pigment epithelium-derived factor, PEDF, Serpin-F1,

SerpinF1, EPC-1, EPC1, PIG35

SOURCE: E. coli

PURITY: >95% by SDS-PAGE and HPLC analyses

Endotoxin level is <0.1 ng/µg of human PEDF.

MOLECULAR WT: 44.5 kDa

FORM: The sterile filtered concentrated (1 mg/ml) protein solution

was lyophilized with 20 mM phosphate buffer & 150 mM NaCl

pH-7.4.

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile dH2O to a concentration of 0.1 -1 mg/ml and let the lyophilized pellet dissolve completely. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human PEDF is best-stored desiccated below 0°C. Reconstituted PEDF should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

DESCRIPTION:

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.

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