

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 <u>P36955</u>

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.

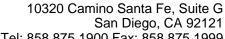
PEDF, human recombinant protein - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PEDF, human recombinant protein - Images

PEDF, human recombinant protein - Background





Tel: 858.875.1900 Fax: 858.875.1999

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

Steele F.R., et al. Proc. Natl. Acad. Sci. U.S.A. 90:1526-1530(1993). Tombran-Tink J., et al. Mol. Vis. 2:11-11(1996). Yin B., et al. Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases. Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Kim J.W., et al. Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.