Product information

PEDF, 20-418 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0342

Full name: Pigment epithelium-derived factor

NCBI Accession No.: NP_000843

Synonyms: EPC-1, PIG35, SERPINF1

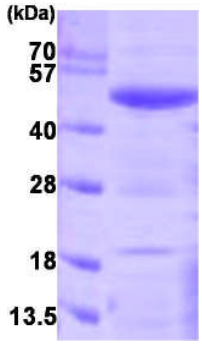
Description: PEDF, also known as SERPINF1, is an extracellular neurotrophic agent, first identified as a secreted product in conditioned medium from cultured fetal human retinal pigment epithelial (RPE) cells. It was reported that PEDF isolated from medium conditioned by human fetal RPE primary cultures promotes neurite outgrowth in cultured human retinoblastoma Y-79 cells. PEDF is also a member of the serpin family, a group of serine protease inhibitors. As PEDF does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity. Recombinant PEDF protein containing a natural variant M72T was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol,

Molecular Weight: 46.7 kDa (420 aa)

Purity: > 85% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MQNPASPPEE GSPDPDSTGA LVEEEDPFFK VPVNKLAAAV SNFGYDLYRV RSSMSPTTNV LLSPLSVATA LSALSLGAEQ
RTESIIHRAL YYDLISSPDI HGTYKELLDT VTAPQKNLKS ASRIVFEKKL RIKSSFVAPL EKSYGTRPRV LTGNPRLDLQ EINNWVQAQM KGKLARSTKE
IPDEISILLL GVAHFKGQWV TKFDSRKTSL EDFYLDEERT VRVPMMSDPK AVLRYGLDSD LSCKIAQLPL TGSMSIIFFL PLKVTQNLTL IEESLTSEFI
HDIDRELKTV QAVLTVPKLK LSYEGEVTKS LQEMKLQSLF DSPDFSKITG KPIKLTQVEH RAGFEWNEDG AGTTPSPGLQ PAHLTFPLDY HLNQPFIFVL
RDTDTGALLF IGKILDPRGP

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Product information

Steele FR., *et al*. (1993) *Proc Natl Acad Sci U S A.* 90(4):1526-30..

Becerra SP., *et al*. (1995) *J Biol Chem*. 270(43):25992-9.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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