

Recombinant human PEDF/SERPINF1 protein

Catalog Number: ATGP0342

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-418aa

UniProt No.

P36955

NCBI Accession No.

NP_002606.3

Alternative Names

Pigment epithelium-derived factor, Pigment epithelium-derived factor, EPC-1, PIG35, SERPINF1, Pigment epithelium-derived factor EPC 1, EPC1, PIG 35, Pigment epithelium derived factor, Proliferation inducing protein 35, SERPIN F1, Serpin peptidase inhibitor clade F member 1, SERPINF 1,

PRODUCT SPECIFICATION

Molecular Weight

46.7 kDa (420aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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 T72M was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

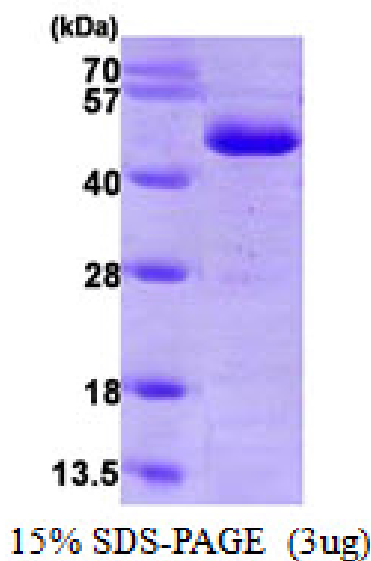
MGSSHHHHHH SSGLVPRGSH MQNPASPPEE GSPDPDSTGA LVEEEDPFFK VPVNKLAAAV SNFGYDLYRV RSSMSPTTNV
LLSPLSVATA LSALSLGAEQ RTESIIHRAL YYDLISSPDI HGTYKELLDV VTAPQKNLKS ASRIVFEKKL RIKSSFVAPL
EKSYGTRPRV LTGNPRDLQ EINNWWQAQM KGKLARSTKE IPDEISILL GVAHFKGQWV TKFDSRKTSL EDFYLDEERT
VRVPMMSDPK AVLRYGLDSD LSCKIAQLPL TGSMSIIFL PLKVTQNLTL IEESLTSEFI HDIDRELKTV QAVLTPKLK
LSYEGEVTKS LQEMKLQSLF DSPDFSKITG KPIKLTQVEH RAGFEWNEDG AGTTPSPGLQ PAHLTFPLDY HLNQPFIFVL
RDTDTGALLF IGKILDPRGP

General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.