

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Pigment Epithelium-derived Factor (rHuPEDF)

Catalog Number: PR1108

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

PEDF is a noninhibitory serpin with neurotrophic, anti-angiogenic, and anti-tumorigenic properties. It is a 50 kDa glycoprotein produced and secreted in many tissues throughout the body. A major component of the anti-angiogenic action of PEDF is the induction of apoptosis in proliferating endothelial cells. In addition, PEDF is able to inhibit the activity of angiogenic factors such as VEGF and FGF-2. The neuroprotective effects of PEDF are achieved through suppression of neuronal apoptosis induced by peroxide, glutamate, or other neurotoxins. The recent identification 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. To date, PEDF-R is the only signaling receptor known to be used by a serpin family member. The unique range of PEDF activities implicate 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 also has the potential to be useful in the treatment of various angiogenesis-related diseases including a number of cancers.

Molecular Weight:

Approximately 44.5 KDa, a single non-glycosylated polypeptide chain containing 400 amino acids.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Data Not Available.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH7.4, 150mM NaCl.

AA Sequence:

M Q N P A S P P E E G S P D P D S T G A L V E E E D P
F F K V P V N K L A A A V S N F G Y D L Y R V R S S
M S P T T N V L L S P L S V A T A L S A L S L G A E Q
R T E S I I H R A L Y Y D L I S S P D I H G T Y K E L L
D T V T A P Q K N L K S A S R I V F E K K L R I K S S F
V A P L E K S Y G T R P R V L T G N P R L D L Q E I N
N W V Q A Q M K G K L A R S T K E I P D E I S I L L L
G V A H F K G Q W V T K F D S R K T S L E D F Y L D
E E R T V R V P M M S D P K A V L R Y G L D S D L S
C K I A Q L P L T G S M S I I F F L P L K V T Q N L T L I
E E S L T S E F I H D I D R E L K T V Q A V L T V P K L
K L S Y E G E V T K S L Q E M K L Q S L F D S P D F S
K I T G K P I K L T Q V E H R A G F E W N E D G A G T
T P S P G L Q P A H L T F P L D Y H L N Q P F I F V L R
D T D T G A L L F I G K I L D P R G P

Endotoxin:

Less than 1EU/mg of rHuPEDF as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C.

MADE IN CHINA

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Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconsti-

tuted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

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