
Product Data Sheet

Product Name: PEDF Human, HEK
 Cat. No.: GP20828
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Pigment epithelium-derived factor; PEDF; Serpin-F1; SerpinF1; EPC-1; EPC1; PIG35.		
Amino Acid Sequence	<p>QNPASPPEEG SPDPDSTGAL VEEEDPFFKV PVNKLAAAVS NFGYDLYRVR SSTSPPTTNVL LSPLSVATAL SALS LGAEQR TESIIHRALY YDLISSPDIH GTYKELLDTV TAPQKNLKSA SRIVFEKKLR IKSSFVAPLE KSYGTRPRVL TGNPRLDLQE INNWWQAQMK GKLARSTKEI PDEISILLG VAHFKGQWVT KFDSRKTSL DFYLDEERTV RVPMMSDPKA VLRYGLDSDL SCKIAQLPLT GSMSIIFFLP LKVTQNLTLI EESLTSEFIH DIDRELKTVQ AVLTVPKLKL SYEGEVTKSL QEMKLQSLFD SPDFSKITGK PIKLTQVEHR AGFEWNEDGA GTTPSPGLQP AHLTFPLDYH LNQPFI FVLR DTD TGALLFI GKILDPRGPA AADYKDDDDK.</p>		
Solubility	It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	The filtered (0.4µm) concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 20mM NaCl pH-7.5.		

Introduction

PEDF is a neurotrophic protein that induces extensive neuronal differentiation in retinoblastoma cells. SerpinF1 is a potent inhibitor of angiogenesis. EPC1 does not undergo the stressed to relaxed conformation transition characteristic as of the active serpins since it exhibits no serine protease inhibitory activity. Aqueous humour level of asymmetric dimethylarginine is correlated with PEDF in humans. ADMA and PEDF levels are increased in response to inflammation in uveitis. Lack of PEDF expression is a potent

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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factor for the enhancement of tumor growth and angiogenesis in breast cancer. PEDF & VEGF genes contribute to the development of diabetic retinopathy. PEDF and VEGF structural changes in blood vessel wall play an important role in the pathophysiology of PD patients. PEDF-overexpressing tumors exhibited reduced intratumoral angiogenesis. SerpinF1 is a new promising approach for the treatment of osteosarcoma. Levels of the natural ocular anti-angiogenic factor SentrinF1 (PEDF) is associated with proliferative retinopathy. VEGF secreted by retinal pigment epithelial cells upregulates PEDF expression via VEGFR-1 in an autocrine manner. Sentrin-F1 concentration in the aqueous humor of diabetic patients predicts who will develop progression of retinopathy. PEDF blocks angiogenic effects of leptin through its anti-oxidative properties.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

Background

PEDF Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain containing a total of 410 amino acids, having a molecular mass of 45.6 kDa and fused to an 11 aa FLAG tag at C-Terminus. The Human PEDF is purified by proprietary chromatographic techniques.

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