

PEDF Protein, Human (His)

Cat. No.:	HY-P7054A
Synonyms:	rHuPEDF; SerpinF1; EPC-1
Species:	Human
Source:	E. coli
Accession:	P36955 (Q20-P418)
Gene ID:	5176
Molecular Weight:	Approximately 45.36 kDa

PROPERTIES

AA Sequence	<p>QNPASPPEEG SPDPDSTGAL VEEEDPFFKV PVNKLAAAVS</p> <p>NFGYDLRVR SSTSPPTTNVL LSPLSVATAL SALS LGAEQR</p> <p>TESIIHRALY YDLISSPDIH GTYKELLDTV TAPQKNLKSA</p> <p>SRIVFEKKLR IKSSFVAPLE KSYGTRPRVL TGNPRLDLQE</p> <p>INNWVQAQMK GKLARSTKEI PDEISILLLG VAHFKGQWVT</p> <p>KFDSRKTSLE DFYLDEERTV RVPMMSDPKA VLRYGLDSDL</p> <p>SCKIAQLPLT GSMSIIFFLP LKVTQNLTLI EESLTSEFIH</p> <p>DIDRELKTVQ AVLTVPKLKL SYEGEVTKSL QEMKLQSLFD</p> <p>SPDFSKITGK PIKLTQVEHR AGFEWNEDGA GTTPSPGLQP</p> <p>AHLTFPLDYH LNQPFI FVLR DTDTGALLFI GKILDRGP</p>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Pigment Epithelium-derived Factor belongs to the serine protease inhibitor (serpin) family. The Pigment Epithelium-derived Factor gene contains a typical signalpeptide sequence, initiator methionine codon, and polyadenylation signal and matches the size of other members of the serpin superfamily. Pigment Epithelium-derived Factor is a neurotrophic agent^[1]. It is widely expressed in human fetal and adult tissues but its expression decreases with age and in malignant tissues. The main anticancer activities of Pigment Epithelium-derived Factor derive from its dual effects, either indirectly on the tumor microenvironment (indirect antitumor action) or directly on the tumor itself (direct antitumor influence)^[2]. Pigment Epithelium-derived Factor has complex neurotrophic, neuroprotective, anti-angiogenic, anti-oxidative, and anti-inflammatory properties, and could potentially be exploited as a therapeutic option for the treatment of vascular complications in diabete

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA