

Serpin F1 Protein, Human (HEK293, N-His)

Cat. No.:	HY-P70498A
Synonyms:	Pigment Epithelium-Derived Factor; PEDF; Cell Proliferation-Inducing Gene 35 Protein; EPC-1; Serpin F1; SERPINF1; PEDF
Species:	Human
Source:	HEK293
Accession:	P36955 (Q20-P418)
Gene ID:	5176
Molecular Weight:	Approximately 49.37 kDa

PROPERTIES

AA Sequence	<p>QNPASPPEEG SPDPDSTGAL VEEEDPFFKV PVNKLAAAVS NFGYDLRVR SSTSPPTTNVL LSPLSVATAL SALS LGAEQR TESIHRALY YDLISSPD IH GTYKELLDTV TAPQKNLKSA SRIVFEKKLR IKSSFVAPLE KSYGTRPRVL TGNPRLDLQE INNWVQAQMK GK LARSTKEI PDEISILL LG VAHFKGQWVT KFDSRKTSL E DFYLDEERTV RVPMMSDPKA VLRYGLDSDL SCKIAQLPLT GSMSIIFFLP LKVTQNLTLI EESLTSEFIH DIDRELKTVQ AVLTVPKLKL SYEGEVTKSL QEMKLQSLFD SPDFSKITGK PIKLTQVEHR AGFEWNEDGA GTTPSPGLQP AHLTFPLDYH LNQPFI FVLR DTDTGALLFI GKILDRGP</p>
Biological Activity	Measured by its ability to enhance the adhesion of Saos-2 human osteosarcoma cells to bovine Collagen I coated plate. The ED ₅₀ this effect is 0.2506 µg/mL, corresponding to a specific activity is 3.99×10 ³ units/mg.
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

Neurotrophic protein Serpin F1 plays a pivotal role in promoting extensive neuronal differentiation in retinoblastoma cells. Additionally, it functions as a potent inhibitor of angiogenesis. Notably, Serpin F1 does not undergo the S (stressed) to R (relaxed) conformational transition typical of active serpins, resulting in the absence of serine protease inhibitory activity. Furthermore, it interacts with PNPLA2, fostering the phospholipase A2 activity of PNPLA2.

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

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