

Pigment Epithelium-Derived Factor Human Recombinant

Item Number	rAP-2715
Synonyms	Pigment epithelium-derived factor, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35.
Description	PEDF Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 400 amino acids and having a molecular mass of 44.5 kDa. The Human PEDF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P36955
Amino Acid Sequence	MQNPASPPEE GSPDPDSTGA LVEEEDPFFK VPVNLAAAV SNFGYDLYRV RSSMSPTTNV LLSPLSVATA LSALSLGAEQ RTESIIHRAL YYDLISSPDI HGTYKELLDV VTAPQKNLKS ASRIVFEKKL RIKSSFVAPL EKSYGTRPRV LTGNPRLDLQ EINNWWQAQM KGKLARSTKE IPDEISILL GVAHFKGQWV TKFDSRKTSL EDFYLDEERT VRVPMMSDPK AVLRVGLDSD LSKIAQLPL TGSMIIFFL PLKVTQNLTL IEESLTSEFI HDIDRELKTV QAVLTVPKLK LSYEGEVTKS LQEMKLQSLF DSPDFSKITG KPIKLTQVEH RAGFEWNEDG AGTTPSPGLQ PAHLTFPLDY HLNQPFIFVL RDTDTGALLF IGKILDPRGP.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized PEDF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PEDF Human should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The sterile filtered concentrated (1mg/ml) protein solution was lyophilized with 20mM sodium phosphate buffer & 150mM NaCl pH-7.4. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized PEDF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**