

Recombinant Human SerpinF1/PEDF Protein (His Tag)

Catalog No. PKSH031253

Note: Centrifuge before opening to ensure complete recovery of vial contents.

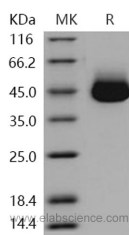
Description

Synonyms	Pigment Epithelium-Derived Factor; PEDF; Cell Proliferation-Inducing Gene 35 Protein; EPC-1; Serpin F1; SERPINF1; PEDF;OI12;OI6;PEDF;PIG35
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Pro 418
Accession	NP_002606.3
Calculated Molecular Weight	45.8 kDa
Observed molecular weight	45.8 kDa
Tag	C-His

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

Pigment epithelium-derived factor, also known as PEDF, Serpin F1, and SERPINF1, is a multiple functional protein which has both anti-angiogenic activity and neurotrophic activity at the same time. PEDF is a secreted glycoprotein that belongs to the noninhibitory serpin. It has an alpha/beta core serine-protease inhibitor domain, three major beta-sheets, and ten alpha-helices. PEDF does not inhibit either serine or cysteine proteinases. PEDF exerts diverse physiological activities including anti-angiogenesis, anti-vasopermeability, anti-tumor, and neurotrophic activities. PEDF acts via multiple high affinity ligands and cell receptors. It has been described as a natural angiogenesis inhibitor with

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neurotrophic and immune-modulation properties. PEDF induces macrophages apoptosis and necrosis through the activation of peroxisome proliferator-activated receptor-gamma by which PEDF could modulate inflammatory reactions in septic shock. It balances angiogenesis in the eye and blocks tumor progression.

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