Product Name: Recombinant Human Serpin F1 (C-6His)
Catalog #: PHH1513

Summary

Name	Serpin F1/PEDF/Pigment epithelium-derived factor
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Serine Protease Inhibitor-clade F1 is produced by our Mammalian expression system and the target gene encoding Gln20-Pro418 is expressed with a 6His tag at the C-terminus.
Accession #	P36955
Host	Human Cells
Species	Human
Predicted Molecular Mass	45.42 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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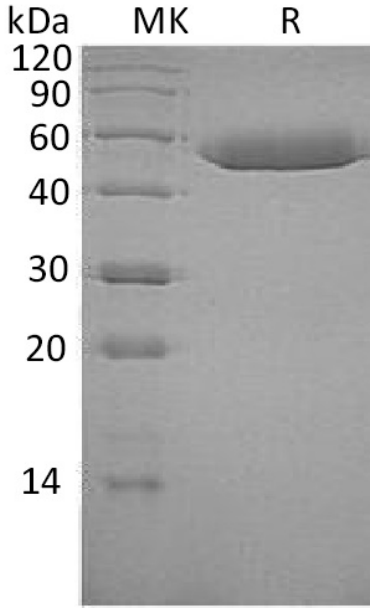

Alternative Names

Pigment Epithelium-Derived Factor; PEDF; Cell Proliferation-Inducing Gene 35 Protein; EPC-1; Serpin F1; SERPINF1; PEDF

Background

Serpin F1 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. As protease inhibitors, serpins have an array of functions including regulating blood clotting, the complement pathway, extracellular matrix remodeling, and cell motility. They are also involved in activities that extend beyond their ability to inhibit proteases. For instance, they may also regulate blood pressure, angiogenesis, or act as storage/transport proteins. Serpin F1 is a new promising approach for the treatment of osteosarcoma and has been described as a natural angiogenesis inhibitor with neurotrophic and immune-modulation properties. The human serpin superfamily consists of at least 35 members that target not only serine proteases, but also selected cysteine proteases and non-protease proteins. Levels of the natural ocular anti-angiogenic factor SentrinF1 (PEDF) is associated with proliferative retinopathy.

Note

For Research Use Only , Not for Diagnostic Use.