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## DATASHEET

### Recombinant human PEDF/Serpin-F1 protein

#### Product overview

<b>Name</b>	Recombinant human PEDF/Serpin-F1 protein
<b>Cat No</b>	HB9815
<b>Biological description</b>	PEDF is a multifunctional protein which is involved in a variety of physiological and pathophysiological processes. It shows neurotrophic, neuroprotective, anti-angiogenic and anti-tumorigenic properties.
<b>Species of origin</b>	It also induces neuronal differentiation in retinoblastoma cells. human
<b>Alternative names</b>	Recombinant Human Pigment Epithelium-Derived Factor, Pigment epithelium-derived factor, PEDF, Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35.
<b>Biological action</b>	Activator
<b>Purity</b>	>95%
<b>Description</b>	Multifunctional protein with neurotrophic, anti-angiogenic and anti-tumorigenic properties

#### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
<b>Handling</b>	<ul style="list-style-type: none"><li>• Solutions should be made in sterile deionized water (not less than 100 µg/ml). This solution can then be further diluted with other aqueous solutions.</li><li>• Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.</li><li>• For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>UniProt ID</b>	P36955
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from solution (1mg/ml) containing 20mM sodium phosphate buffer & 150mM NaCl (pH 7.4)

#### References

**Pigment epithelium-derived factor (PEDF) is one of the most abundant proteins secreted by human adipocytes and induces insulin resistance and inflammatory signaling in muscle and fat cells**

Famulla S *et al* (2011) Int J Obes (Lond) 35(6)  
**PubMedID** [20938440](#)

**PEDF: a multifaceted neurotrophic factor**

Tombran-Tink J *et al* (2003) Nat Rev Neurosci 4(8)  
**PubMedID** [12894238](#)

**PEDF and its roles in physiological and pathological conditions: implication in diabetic and hypoxia-induced angiogenic diseases**

He X *et al* (2015) Clin Sci (Lond) 128(11)

**PubMedID** [25881671](#)

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