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# **DATASHEET**

Recombinant human PEDF/Serpin-F1 protein

#### **Product overview**

Name Recombinant human PEDF/Serpin-F1 protein

Cat No HB9815

**Biological description** 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.

It also induces neuronal differentiation in retinoblastoma cells.

Species of origin huma

Alternative names Recombinant Human Pigment Epithelium-Derived Factor, Pigment epithelium-derived factor, PEDF,

Serpin-F1, SerpinF1, EPC-1, EPC1, PIG35.

**Biological action** Activator Purity >95%

**Description**Multifunctional protein with neurotrophic, anti-angiogenic and anti-tumorigenic properties

## **Solubility & Handling**

Solubility overview

To make a stock solution, reconstitute in sterile  $18M\Omega$ cm water at a concentration >  $100\mu g/ml$ , which can then be diluted to make a working solution

Handling

- 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.
- 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.
- 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.

**Shipping Conditions** 

**Important** 

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

#### **Chemical Data**

UniProt ID P36955 Source E. Coli.

Appearance White lyophilized powder (sterile filtered & freeze-dried)

Formulation 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