Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com

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	human
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 18MΩcm water at a concentration > 100µg/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.
Important	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