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PEDF

(PIGMENT-EPITHELIUM DERIVED FACTOR)

CATALOG NO.:	PEDF-500
LOT. NO.:	004-096
QUANTITY:	500 µg

Minimum of 0.5 mg/mL protein (using BSA protein standard). 200 mM Sodium chloride; 20 mM Sodium phosphate, pH 6.4; 1 mM DTT.

PURITY & STERILITY:

APPLICATIONS:

RECONSTITUTION:

CONCENTRATION:

PEDF has been shown to be >90% pure by SDS-PAGE. PEDF is provided as a non-sterile sample. The product may be rendered sterile by 0.22 μ m filtration after reconstitution. **Note: This product is for research use only.**

Not for use in clinical or diagnostic procedures

- 1) PEDF has a potent neuronal differentiating activity on human retinoblastoma cell lines.
- It is a survival factor for rat cerebellar granule cell neurons, which protects them from death by apoptosis and glutamate neurotoxicity.
- 3) It promotes the survival and differentiation of developing avian and murine spinal motor neurons.
- 4) It protects rat motor neurons from chronic glutamate-mediated degeneration.
- 5) It protects cultured rat retinal neurons against hydrogen peroxide-induced cell death.
- 6) It delays the death of photoreceptors in mouse models of inherited retinal degenerations.
- 7) It supports normal development of photoreceptor neurons and opsin expression after retinal pigment epithelium removal.

STORAGE & HANDLING: PEDF is shipped at ambient temperature. This product is stable for at least 6 months following receipt. It is recommended that lyophilized PEDF be stored at \leq 4°C and reconstituted PEDF be aliquoted and stored at \leq -20°C. Avoid frequent freeze-thawing after reconstitution.

REFERENCES:

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- Taniwaki T, Becerra SP, Chader GJ, Schwartz JP, "Pigment epithelium-derived factor is a survival factor for cerebellar granule cells in culture." J Neurochem 1995 Jun;64(6):2509-17.
- DeCoster MA, Schabelman E, Tombran-Tink J, Bazan NG, "Neuroprotection by pigment epithelial-derived factor against glutamate toxicity in developing primary hippocampal neurons." J Neurosci Res 1999 Jun 15;56(6):604-10.
- 4) Houenou LJ, D'Costa AP, Li L, Turgeon VL, Enyadike C, Alberdi E, Becerra SP, "Pigment epithelium-derived factor promotes the survival and differentiation of developing spinal motor neurons." J Comp Neurol 1999 Sep 27;412(3):506-14.
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ORDERING:

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