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PEDF

(PIGMENT-EPITHELIUM DERIVED FACTOR)

CATALOG NO.: PEDF-005

LOT. NO.: 006-019

QUANTITY: 5 µg

RECONSTITUTION:

Reconstitute lyophilized PEDF in 10 µL deionized water.

CONCENTRATION:

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:

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 µm filtration after reconstitution.
Note: This product is for research use only.
Not for use in clinical or diagnostic procedures

APPLICATIONS:

1) PEDF has a potent neuronal differentiating activity on human retinoblastoma cell lines.
2) 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 ≤4ºC and reconstituted PEDF be aliquoted and stored at ≤-20ºC. Avoid frequent freeze-thawing after reconstitution.

REFERENCES:

1) Steele FR, Chader GJ, Johnson LV, Tombran-Tink J, "Pigment epithelium-derived factor: neurotrophic activity and identification as a member of the serine protease inhibitor gene family." Proc Natl Acad Sci USA 1993 Feb 15;90.
2) 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.
3) 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.
5) Bilak MM, Corse AM, Bilak SR, Lehar M, Tombran-Tink J, Kuncl RW, "Pigment epithelium-derived factor (PEDF) protects motor neurons from chronic glutamate-mediated neurodegeneration." *J Neuropathol Exp Neurol* 1999 Jul;58(7):719-28.
6) Cao W, Tombran-Tink J, Chen W, Mrazek D, Elias R, McGinnis JF, "Pigment epithelium-derived factor protects cultured retinal neurons against hydrogen peroxide-induced cell death." J Neurosci Res 1999 Sep 15;57(6):789-800.
7) Cayouette M, Smith SB, Becerra SP, Gravel C, "Pigment epithelium-derived factor delays the death of photoreceptors in mouse models of inherited retinal degenerations." Neurobiol Dis 1999 Dec;6(6):523-32.
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ORDERING:

Cat. No.:	PEDF-5	(5 µg)
Cat. No.:	PEDF-50	(50 µg)
Cat. No.:	PEDF-500	(500 µg)

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