

RECOMBINANT HUMAN PIGMENT EPITHELIAL-DERIVED FACTOR (PEDF)

CATALOG NUMBER: GF134 **QUANTITY:** 10 µg
LOT NUMBER: DAM1598723 **CONCENTRATION:** 0.19 mg/mL

DESCRIPTION: Pigment epithelium-derived factor (PEDF) was first identified as a 50 kDa secreted protein in conditioned medium from cultured fetal human retinal pigment epithelium (RPE) cells (Tombran-Tink, 1991). PEDF has been shown to have neurotrophic activity in the retina in vivo (Cayouette, 1999). PEDF is also a neurotrophic and neuroprotective factor in other systems, including cultured cerebellar granule cells, primary hippocampal neurons, spinal cord motor neurons and amphibian photoreceptors cultured in the absence of RPE cells (Karakousis, 2001). The binding of PEDF to retinoblastoma and cerebellar granule cells may be receptor-mediated. Recently, PEDF was shown to be a potent inhibitor of angiogenesis in endothelial cell cultures and in rat cornea and retina in vivo (Dawson, 1999 and Stellmach, 2001).

SOURCE: Stable BHK cell transfectants

PRESENTATION: Provided liquid in 20 mM sodium phosphate, pH 6.4, 0.2 M sodium chloride, and 1 mM DTT. Product has been sterile filtered to 0.22-micron.

PURITY: PEDF is a 50 kDa protein.
Figure 1. Greater than 95% purity by SDS-PAGE.

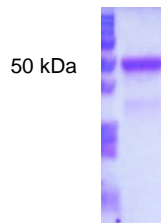


Figure 1

STORAGE/HANDLING: Maintain frozen at -70°C in undiluted aliquots for up to 6 months from date of receipt. Avoid repeated freeze/thaw cycles.

REFERENCES: Tombran-Tink J, et al., 1991, *Exp. Eye Res.*, **53**:411-414.
 Cayouette M, et al., 1999, *Neurobiol. Dis.*, **6**:523-532.
 Karakousis PC, et al., 2001, *Mol Vis.*, **7**:154-163.
 Dawson DW, et al., 1999, *Science*, **285**:245-248.
 Stellmach V., et al., 2001, *Proc. Natl. Acad. Sci. USA*, **98**:2593-2597.

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

©2009 Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209
 Australia +61 3 9839 2000
www.millipore.com



Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

**FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

©2009 Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209
Australia +61 3 9839 2000
www.millipore.com