

Porcine ECGF, Crude Extract for Cell Culture w/Heparin

Catalog No. CRE127 **Quantity:** 6 mg

Alternate Names: ECGF

Description: Endothelial cell growth factor (ECGF) is an extract of porcine brain containing growth promoting factors for vascular endothelial cells of mammalian origin. ECGF has also been reported to be beneficial as a media supplement for the fusion and growth of hybridoma cells in monoclonal antibody production. Endothelial cells from human umbilical vein (HUVEC) can be established as primary cultures by traditional methods. The serial propagation of these cells has proved to be difficult. The long-term propagation of these cells in vitro can be achieved with an extract prepared from bovine brain. The introduction of a fibronectin or collagen matrix to the cell culture system allows to cultivate endothelial cells at clonal densities. With ECGF, the FCS requirement can be reduced. Heparin potentiates the mitogenic activity of crude preparations of ECGF. ECGF has also been reported to eliminate the need for feeder cells in the clonal growth of hybridomas and other cell types.

Source: Porcine (BSE-free)

Formulation: Lyophilized from a sterile solution containing NaCl and streptomycin sulfate.

Purification: Crude extract

Heparin: 2.5 mg/mg ECGF

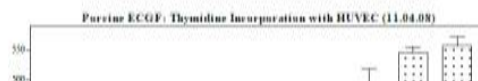
Biological Activity: Optimum concentration for human umbilical vein endothelial cells (HUVEC) with heparin (50 µg/ml) is at 10-20 µg/ml. As a growth supplement for use in monoclonal antibody production the optimum range is 50 to 200 µg/ml.

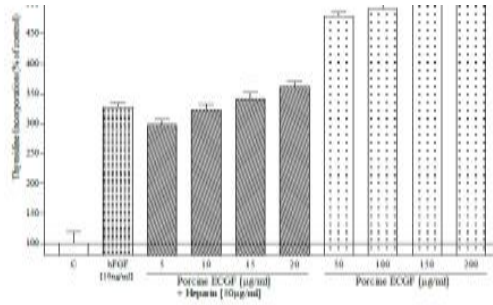
Reconstitution: Endothelial cell growth factor is supplied as a sterile lyophilized powder containing 6 mg protein per vial. To obtain a stock solution reconstitute the contents of the vial in 2 ml of prewarmed (37 °C) sterile balanced salt solution. Gently rotate the vial until the contents are dissolved. This stock solution may be further diluted in sterile tissue culture media to obtain the desired working concentrations. Although the stock solution can be added aseptically to sterile tissue culture medium, it is recommended that medium containing diluted product is aseptically filtered prior to use. **The 6 mg ECGF are sufficient for 500 ml medium.**

Applications: Porcine ECGF is effective on mouse, bovine, porcine and human cells.

Application Note: ECGF is a crude extract. The solution may not be not fully clear after reconstitution. However this has no influence on the activity!

Storage & Stability: Store as supplied at -20°C to -80°C. It is recommended to store the reconstituted solution in aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**





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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com