

ECGF, Pig, Cell culture grade

Catalog No.	CSI11673	Quantity:	6 mg
Alternate Names:	Endothelial Cell Growth Factor		
Description:	Endothelial cell growth factor (ECGF) is an extract of pig 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 cell growth factor is prepared using a modification of the method of Maciag, et al. (1979) lyophilized from a sterile solution containing NaCl and streptomycin sulfate. 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 <i>in vitro</i> 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:	Pig (BSE-free)		
Formulation:	Lyophilized from PBS, pH 7.4 without preservatives.		
Purity:	Crude extract		
Biological Activity:	Optimum concentration for human umbilical vein endothelial cells (HUVEC) range from 100-300 µg/ml, optimal concentration with heparin (50 µg/ml) is at 20 µg/ml. As a growth supplement for use in mAb production the optimum range is 25-100 µg/ml.		
Reconstitution:	Centrifuge vial prior to opening. Endothelial cell growth factor is supplied as a sterile lyophilized powder containing 15 mg protein per vial. To obtain a stock solution reconstitute the contents of the vial in 5 ml of pre warmed (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 be aseptically filtered prior to use.		
Storage & Stability:	Store lyophilized product at 2-4°C. After reconstitution, the product may be stored as aliquots at -20°C. Avoid repeated freeze-thaw cycles.		
Applications:	Pig ECGF is effective on mouse, bovine, pig and human cells.		
Country of Origin:	USA		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

