

Product datasheet for DA3561

Bovine ECGFpro2 + Heparin (complete for lymphatic ECs) Protein

Product data:

Product Type:	Native Proteins
Description:	Bovine ECGFpro2 + Heparin (complete for lymphatic ECs) recombinant protein, 6 mg
Protein Source:	Brain
Buffer:	State: Lyophilized, Freeze dried powder (crude extract). Grade: Cell culture tested! Heparin: 2.5 mg/mg ECGF Buffer System: H2O without preservative or stabilizer
Bioactivity:	Specific: Mouse, Bovine and Human Cells
Reconstitution Method:	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 PBS or water. 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 ECGF + VEGF-C are sufficient for 500 ml growth medium.
Preparation:	Lyophilized, Freeze dried powder (crude extract). Grade: Cell culture tested! Heparin: 2.5 mg/mg ECGF
Applications:	Biological activity/ Working concentration: Optimum concentration for human umbilical vein endothelial cells (HUVEC) range from 50-200 µg/ml, optimal concentration with heparin (30 µg/ml) is about 12 µg/ml.
Protein Description:	Endothelial cell growth factor (ECGF) is an extract of bovine brain containing growth promoting factors for vascular endothelial cells of mammalian origin. 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. ECGFpro2 is supplemented with recombinant human VEGF-C (corresponding to 50 ng/ml) a concentration sufficient for the cultivation of lymphatic endothelial cells.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody at -20°C. Avoid repeated freezing and thawing.



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Stability: Shelf life: one year from despatch.

Summary: Lymphatic endothelial cells from human skin 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 cultivating 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.

Protein Families: **Biological activity/ Working concentration:** Optimum concentration for human umbilical vein endothelial cells (HUVEC) range from 50-200 µg/ml, optimal concentration with heparin (30 µg/ml) is about 12 µg/ml.