

Datasheet: 4110-5004

Description:	ENDOTHELIAL CELL GROWTH SUPPLEMENT
Name:	ECGS
Format:	Purified
Product Type:	Purified Protein
Quantity:	50 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Tissue Culture	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

Purified Protein - lyophilized

Reconstitution

Use 5-10 ml of sterile physiological saline. Mix gently and transfer to a sterile, screw cap culture tube. Dilute to a final concentration of 50-300 µg/ml in the appropriate serum supplemented media. Solution may be filtered on low protein-binding membranes if necessary.

Preparation

0.1 micron filtered

Buffer Solution

Phosphate buffered saline, pH 7.4

Preservative Stabilisers

None present

Product Information

Endothelial Cell Growth Supplement (ECGS), derived from bovine hypothalamus is a beneficial culture media supplement for use with vascular endothelial cells (human and animal), at a concentration of 100-300 µg/ml in serum supplemented media, hybridoma cell cloning, at a concentration of 25-150 µg/ml in serum supplemented media and Balb/c-3T3 cells, at a concentration of 50-200 µg/ml in 5% serum supplemented media.

Purity

Microorganisms - not detected
Mycoplasma - not detected

References

1. Baker, M. *et al.* (2013) Stromal Claudin14-Heterozygosity, but Not Deletion, Increases Tumour Blood Leakage without Affecting Tumour Growth. [PLoS One. 8: e62516](https://doi.org/10.1371/journal.pone.0182516).
2. Browne, A. *et al.* (2015) Pharmacological Inhibition of β3 Integrin Reduces the Inflammatory Toxicities Caused by Oncolytic Adenovirus without Compromising Anticancer Activity. [Cancer Res. 75 \(14\): 2811-21](https://doi.org/10.1186/s12943-015-0211-2).

3. Lemaire, M. *et al.* (2015) Arsenic Exposure Increases Monocyte Adhesion to the Vascular Endothelium, a Pro-Atherogenic Mechanism. [PLoS One. 10 \(9\): e0136592.](#)
4. Dieterich, L.C. *et al.* (2017) Tumor-Associated Lymphatic Vessels Upregulate PDL1 to Inhibit T-Cell Activation. [Front Immunol. 8: 66.](#)
5. Gittens, B.R. *et al.* (2017) Galectin-3: A Positive Regulator of Leukocyte Recruitment in the Inflamed Microcirculation. [J Immunol. 198 \(11\): 4458-69.](#)
6. Loh, L.N. *et al.* (2017) Escherichia coli K1 utilizes host macropinocytic pathways for invasion of brain microvascular endothelial cells. [Traffic. 18 \(11\): 733-746.](#)

Further Reading 1. Pintus, C. *et al.* (1983) Endothelial cell growth supplement: a cell cloning factor that promotes the growth of monoclonal antibody producing hybridoma cells. [J Immunol Methods. 61 \(2\): 195-200.](#)

Storage Lyophilised product is stable for 6 months at 4°C.
Solutions are stable for 2 weeks at 4°C or 1 month at -20°C. Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.

Guarantee 6 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MYCOPLASMA REMOVAL AGENT \(BUF035\)](#)

[MOUSE MONOCLONAL ANTIBODY ISOTYPING TEST KIT \(MMT1\)](#)

[RAT MONOCLONAL ANTIBODY ISOTYPING TEST KIT \(RMT1\)](#)

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