

Endothelial cell growth supplement ECGS

E767638

INTRODUCTION

The endothelial cell growth supplement (ECGS) is a bovine neural tissue extract containing growth- promoting factors for mammalian vascular endothelial cells and can improve the proliferation of human umbilical vein endothelial cells (HUVEC). ECGS is crucial for the differentiation and proliferation of endothelial cells. It can coordinate with interleukin-1 (IL-1) and mediate matrix remodeling in vascular smooth muscle cells (VSMC).

ECGS is prepared by modifying the method of Maciag et al. and is lyophilized from a sterile solution containing NaCl and streptomycin sulfate. It has been reported that ECGS, as a medium supplement, can play a positive role in the fusion and growth of hybridoma cells for monoclonal antibody production.

STORAGE AND STABILITY

Store at -20°C in the dark for 12 months.

GUIDELINES FOR USE

ECGS is provided as a sterile lyophilized powder, with each vial containing 15 mg of protein. To use, add 0.5 mL of sterile PBS or ddH₂O to the vial and gently swirl until the contents are dissolved, resulting in a stock solution of 30 mg/mL ECGS. This stock solution should be further diluted in a sterile tissue culture medium to achieve the desired working concentration. The optimal range for promoting vascular endothelial cell growth is 10-300 µg/mL.

PRODUCT NOTICES

1. After receiving the product, reconstitute it and then aliquot into small volumes for storage at -20°C for up to 6 months or at 2~8°C for no more than one week. Avoid repeated freeze-thaw cycles.
2. This product is intended for use by professionals for scientific research only and is not to be used for clinical diagnosis or treatment, food, or pharmaceuticals. It should not be stored in a residential area.
3. For your safety and health, please wear a lab coat and disposable gloves during operation.