

Human Endothelial Growth Medium Serum Free Formulation 1 (EGM-SF1)
ORDERING INFORMATION

Product Name	Human Endothelial Growth Medium Serum Free Formulation 1 (EGM-SF1)
Catalog No:	cAP-02-SF1
Size:	500ml
Storage:	4°C

Product Description

Human Endothelial Growth Medium Serum Free Formulation 1 (EGM-SF1) is freshly prepared with Endothelial Serum Free Basal Medium (ESFBM, cAP-03B) and supplemental substances including recombinant proteins (FGF2, EGF, VEGF), ITS, L-Ascorbic Acid, Heparin, which contains the essential nutrients for human large vessel endothelial cells proliferation.

Shipping Condition: Ambient temperature or blue ice (seasonally)

Storage Condition: EGM-SF1 should be stored at 4°C. A change in color or appearance of precipitate may indicate deterioration.

Shelf Life: 2 months from the date of receipt under proper storage condition. Avoid frequent temperature changes to the entire bottle of medium.

Features:

1. No serum and antibiotics are added and ready to be used.
2. **No weaning process is required** for switching HUVECs from serum containing medium to EGM-SF1.

Protocol for Using EGM-SF1 (for HUVECs, cAP-0001 series products)
Handling of Arriving Cells

When you receive the cells in a frozen vial, you can transfer the vial of cells into a -80°C freezer for short period storage or a liquid nitrogen tank for long term storage. Thaw the cells in a 37°C water bath, and then transfer the cells into a T25 flask pre-coated with Human Fibronectin (cAP-42) as described in details in Subculture Protocol.

Subculture Protocol

- A) Pre-coating of T25 flasks: Add 2ml (20ug/ml) of Human Fibronectin Solution (**cAP-42**) into one T25 flask and make sure whole surface of the flask is covered with the coating solution. Incubate the flasks in an incubator at 37°C for a minimum of 1 hour (Overnight is preferred). Dispose excessive Fibronectin by aspiration and the flask is ready to be used. (Alternatively, Matrigel coating solution, **cAP-58**, could be used instead).
- B) Rinse the cells in T25 flask with 5ml HBSS (**Room Temperature, RT**) twice.
- C) Add 2ml of Trypsin/EDTA (**RT**) (cAP-23) into one T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the excessive Trypsin/EDTA solution **within 20 seconds** with aspiration.
- D) Leave the T25 flask with the cells at **RT** for 1 minute (the cells usually will detach from the surface within 1-2 minutes). You can monitor the cells under microscope and when most of cells become rounded up, hit the flask against the bench surface, and the cells will move on the surface of the flask when monitoring under microscope.
- E) Add 5ml of the Trypsin Inhibitor Buffer (cAP-64) to the flask and transfer the cells into a 15ml Falcon tube and spin the cells down with 800g for 5 minutes.
- F) Re-suspend the cell pellet with 15ml of EGM-SF1 medium and the cell suspension is transferred directly into 2 or 3 pre-coated T25 flasks (5ml each, and the cells are sub-cultured at 1: 3 ratios)
- G) Change medium every 2-3 days and cells usually become confluent within 7 days (when split at a 1:3 ratio).

Related Products:

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
HBSS w/o Ca ²⁺ , Mg ²⁺	cAP-11	100ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Inhibitor Buffer Solution	cAP-64	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg	Angio-Proteomie
Bovine Type I Collagen Solution	cAP-17	100mg	Angio-Proteomie
Matrigel Coating Solution	cAP-58	100ml	Angio-Proteomie

THESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.