

Human recombinant hGF (hGF) | 300703

Product overview

Description	Human recombinant hGF (hGF) is a dimeric protein consisting of two identical subunits, each containing a cysteine-rich domain and a C-terminal domain. It is a member of the transforming growth factor (TGF) superfamily. hGF is secreted by various cells and acts as a potent mitogen for many cell types, including fibroblasts, epithelial cells, and endothelial cells. It is involved in wound healing, tissue repair, and angiogenesis.
Organism	Human
Tissue	Various tissues, including skin, bone, and blood vessels.
Applications	Wound healing, tissue repair, angiogenesis, and as a research tool for studying cell growth and differentiation.

Properties

Cell type	Various cell types, including fibroblasts, epithelial cells, and endothelial cells.
Growth properties	hGF is a potent mitogen for many cell types, promoting cell growth and proliferation.

Storage and stability

Citation	Human recombinant hGF (hGF) (Cytion 300703)
NCBI_TaxID	9606

Shipping and handling

Notes

Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L D-glucose, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM sodium pyruvate, w: 1.2 g/L NaHCO3 (820400a)
Supplements	10% FBS, 10 ng/mL bFGF, 10 µg/mL insulin-like growth factor (IGF)
Dissociation Reagent	Trypsin
Subculturing	Cells are typically grown in 25 cm2 flasks. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are then seeded into new flasks at a density of 1-3 x 10^5 cells per flask.

Human Endometrial Stromal Cells (hGF) | 300703

Freeze medium

Freezing medium: 90% FBS + 10% DMSO, CM-1 (Cytion 800100), 100 µg/ml

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of medium.
3. Seed the cells into a 25 cm² flask containing 10 ml of medium. Incubate at 37°C in 5% CO₂.
4. After 24 hours, replace the medium with fresh medium. Remove 70% of the medium.
5. After 48 hours, replace the medium with fresh medium. Remove 15% of the medium.
6. After 72 hours, replace the medium with fresh medium. Remove 30% of the medium.
7. After 96 hours, replace the medium with fresh medium. Remove 10% of the medium.
8. After 120 hours, replace the medium with fresh medium. Remove 10% of the medium.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Coated with laminin (Cytion 100000), 100 µg/ml

Freezing Procedure

Freeze cells in freezing medium at -80°C. Store at -80°C.

Shipping Conditions

Ship cells in freezing medium at -80°C. Store at -80°C.

Storage Conditions

Store cells in freezing medium at -150 to -196 °C. Store at -150 to -196 °C.

Human Endometrial Stromal Cells / hGF / HLA

Product sheet

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Sterility

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