

(hGF) | 300703

Description	Human placental growth factor (hGF) is a member of the transforming growth factor-β (TGF-β) family of cytokines. It is a dimeric protein consisting of two identical subunits linked by disulfide bonds. hGF is secreted by various cells, including placental trophoblasts, and plays a role in embryonic development, wound healing, and angiogenesis. It is also used in clinical research for its potential in promoting tissue repair and vascularization.
Organism	Human
Tissue	Placenta
Applications	Research, cell culture, wound healing, angiogenesis
Cell type	Various cell types, including endothelial cells, fibroblasts, and epithelial cells
Growth properties	Stable, non-adherent
Citation	Human placental growth factor (hGF) (Cytion 300703)
NCBI_TaxID	9606
Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 μ g/ml / 100 ml, w: 2.5 μ g/ml L-Ascorbic acid, w: 15 μ g/ml HEPES, w: 0.5 μ g/ml
Supplements	Human placental growth factor (hGF) 10%, bFGF 10 μ g/ml / 100 ml, 10 μ g/ml / 100 ml
Dissociation Reagent	Trypsin
Subculturing	Human placental growth factor (hGF) 10%, bFGF 10 μ g/ml / 100 ml, 10 μ g/ml / 100 ml T25

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Freeze
medium

Freeze medium: FBS 90% + DMSO 10% CM-1 (100%)

Thawing and
Culturing Cells

1. Thaw cells quickly in a water bath at 37°C.
2. Transfer cells to a cryovial and store at -150 °C.
3. Thaw cells quickly in a water bath at 37°C.
4. Seed cells into a well of a 96-well plate at a density of 70%.
5. Incubate cells for 15 minutes.
6. Add 300 x g of cells to a 3 ml tube.
7. Incubate cells for 10 minutes.
8. Wash cells with PBS.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Coated

Freezing
Procedure

Freezing procedure: 1. Thaw cells quickly in a water bath at 37°C. 2. Transfer cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Seed cells into a well of a 96-well plate at a density of 70%. 5. Incubate cells for 15 minutes. 6. Add 300 x g of cells to a 3 ml tube. 7. Incubate cells for 10 minutes. 8. Wash cells with PBS.

Shipping
Conditions

Shipping conditions: 1. Thaw cells quickly in a water bath at 37°C. 2. Transfer cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Seed cells into a well of a 96-well plate at a density of 70%. 5. Incubate cells for 15 minutes. 6. Add 300 x g of cells to a 3 ml tube. 7. Incubate cells for 10 minutes. 8. Wash cells with PBS.

Storage
Conditions

Storage conditions: 1. Thaw cells quickly in a water bath at 37°C. 2. Transfer cells to a cryovial and store at -150 °C. 3. Thaw cells quickly in a water bath at 37°C. 4. Seed cells into a well of a 96-well plate at a density of 70%. 5. Incubate cells for 15 minutes. 6. Add 300 x g of cells to a 3 ml tube. 7. Incubate cells for 10 minutes. 8. Wash cells with PBS.

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Sterility

PCR