

Gibco growth factors for stem cell research

Our high-quality Gibco™ growth factors for stem cell growth, proliferation, differentiation, and maintenance offer:

- High biological activity
- High purity (≥95% pure)
- <0.1 ng endotoxin per microgram
- Proven compatibility—validated with Gibco™ media

Transforming growth factor–beta (TGF-β)

TGF-β is involved in proliferation, differentiation, and other functions in many cell types.

Fibroblast growth factor–basic (bFGF, FGF-basic, FGF 2)

This large FGF protein family is involved in many aspects of development, including cell proliferation, growth, and differentiation. FGF-basic is a critical component for maintaining embryonic stem cells in culture in an undifferentiated state.

Epidermal growth factor (EGF)

EGF has a profound effect on the differentiation of specific cells *in vivo* and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin.

Bone morphogenetic protein 4 (BMP4)

BMP4 is a part of the transforming growth factor–beta (TGF-β) superfamily. It plays an important role in the onset of endochondral bone formation in humans.

For more information about Gibco growth factors, including growth factors for clinical research, go to thermofisher.com/growthfactors

Leukemia inhibitory factor (LIF)

Mouse LIF is known for its ability to maintain the pluripotency of mouse embryonic stem cells.

Activin A

Activin A is involved in a wide range of biological processes including inflammation, neural development, and hematopoiesis.

Sonic hedgehog (SHH)

SHH is instrumental in embryonic development. It has been implicated as the key inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites.

Ordering information

Product	Size	Cat. No.
Activin A	10 µg	PHC9564
bFGF	10 µg	13256029
BMP4	10 µg	PHC9534
EGF	1 mg	PHG0313
LIF	10 µg	PMC9484
SHH	10 µg	PMC8034
TGF-β1	10 µg	PHG9214
TGF-β2	10 µg	PHG9124
TGF-β3	5 µg	PHG9305