



## Stemfactor™ High-Purity, Stem Cell Relevant Cytokine Collection

Stemgent's Stemfactor™ Cytokine Collection offers high-purity cytokines and growth factors able to support your stem cell culture applications. Our recombinant proteins are activity-tested to ensure the most functionally active biological results possible. In addition to bioactivity, every lot produced is stringently tested for high purity, negligible endotoxin levels, and structural homogeneity, eliminating contaminants that can negatively impact your cell culture behavior. Our growing collection includes several cytokines crucial for stem cell proliferation, differentiation, self-renewal, survival, and maintaining pluripotency. Stemfactor™ cytokines are conveniently packaged in affordable quantities (5-100 µg) to maximize your research budget. Need a cytokine in a bulk quantity? No problem. Contact [Stemgent's](#) customer service at 1.617.245.0098 for a quote. Whether for small or large scale projects, Stemgent™ offers high-quality cytokines to meet your needs. Choose the cytokines best suited for your stem cell culturing applications:

- [TGF-β Signaling Pathway](#)
- [FGF Signaling Pathway](#)
- [EGF Signaling Pathway](#)
- [SHH Signaling Pathway](#)

*(Christian- Make these bullets clickable to take you to the appropriate tab/table below.)*

We're always adding to our Stemfactor™ Cytokine Collection so check back frequently for the most complete offering of high performing cytokines for your stem cell research.

Christian – “More Info” points to the individual product page with the customer login and email info like on the Antibodies Landing Page that we did a couple of weeks ago.

TGF-β Signaling Pathway

Cat. No.	Cytokine	Application	Purity	Activity Assay	Qty.	Price	
<b>03-0001</b>	Stemfactor™ Activin A, Human Recombinant	Together with bFGF, maintains self-renewal and pluripotency of human ES cells at low concentrations and promotes hES cell differentiation to endodermal cell types at high concentrations.	>98% by SDS-PAGE	Inhibition of proliferation of mouse MPC-11 cells	5 µg	\$179	<a href="#">More Info</a>
<b>03-0004</b>	Stemfactor™ TGF-β1, Human Recombinant	Together with bFGF, supports human ES cell self-renewal.	>98% by SDS-PAGE	Inhibition of mouse IL-4-dependent proliferation in mouse HT-2 cells	5 µg	\$189	<a href="#">More Info</a>
<b>03-0006</b>	Stemfactor™ Noggin, Human Recombinant	Together with basic FGF in feeder-free medium, inhibits BMP activity allowing human ES cells to maintain their undifferentiated, pluripotent state.	>98% by SDS-PAGE	Inhibition of BMP-4 induced alkaline phosphatase production in ATDC-5 chondrogenic cells	10 µg	\$119	<a href="#">More Info</a>
<b>03-0007</b>	Stemfactor™ BMP-4, Human Recombinant	Critical embryonic signaling molecule required for early differentiation of the ectodermal tissue and neural plate formation. Supports LIF in mouse ES cell self-renewal in the absence of serum. Induces trophoblast differentiation in human ES cells.	>95% by SDS-PAGE	Induction of alkaline phosphatase production by mouse chondrogenic ATDC-5 cells	10 µg	\$199	<a href="#">More Info</a>

FGF Signaling Pathway

Cat. No.	Cytokine	Application	Purity	Activity Assay	Qty.	Price	
03-0002	Stemfactor™ Fibroblast Growth Factor-basic, Human Recombinant (bFGF)	Critical growth factor supporting self renewal of human ES cells. Together with EGF, maintains neural stem cell self-renewal in culture.	>98% by SDS-PAGE	Dose-dependent proliferation of NIH 3T3 cells	50 µg	\$99	<a href="#">More Info</a>

EGF Signaling Pathway

Cat. No.	Cytokine	Application	Purity	Activity Assay	Qty.	Price	
03-0003	Stemfactor™ Epidermal Growth Factor, Human Recombinant (EGF)	Promotes proliferation and differentiation of mouse embryonic primordial cells into neurons and astrocytes. Maintains neural stem cell self-renewal.	>98% by SDS-PAGE	Dose-dependent proliferation of BALB/c NIH 3T3 cells	100 µg	\$79	<a href="#">More Info</a>

SHH Signaling Pathway

Cat. No.	Cytokine	Application	Purity	Activity Assay	Qty.	Price	
03-0008	Stemfactor™ Sonic Hedgehog (C2411), Human Recombinant (SHH)	Instrumental in early embryonic patterning of the ventral neural tube, limb axis, and ventral somites. Controls cell division of adult stem cells and implicated in development of some cancers.	>98% by SDS-PAGE	Induction of alkaline phosphatase production by C3H/10T1/2 fibroblasts	25 µg	\$249	<a href="#">More Info</a>