



FOLLISTEM

FolliStem Study

FolliStem 3 month Study



Day 0, prior to utilizing FolliStem



Day 90, [3months] once daily application

FolliStem 3 month Study



Day 0, prior to utilizing FolliStem



Day 90, [3months] once daily application

FolliStem 6 month



Day 0, prior to utilizing FolliStem



Day 180, [6months] once daily application

FolliStem 6 month



Day 0, prior to utilizing FolliStem



Day 180, [6months] once daily application



- **FolliStem Promotes Human Hair Follicle Stem Cells Capacity for Hair Regeneration**
- FolliStem is a novel product derived from human Adipose stem cells formulated for topical use. In this study we present results of FolliStem on stimulation of human hair follicle stem cells (HHFSCs). The hair follicle stem cells are located in the epithelial bulge and are responsible for continual regeneration of hair follicle during their growth cycle. Physiologically mature hair follicle undergoes cycle of growth (anagen), regression (catagen), and rest (telogen) numerous times in adult life. The resting follicles re-enters anagen (regeneration) when proper molecular signals are provided by FolliStem. Then, during the late telogen to early anagen transition, FolliStem signals Dermal Papilla to stimulate hair germ and quiescent bulge stem cells to become activated, as seen in our trans-well membrane co-culture studies of Dermal Pappilla and Bulge HHFSCs. The interactions between hair follicle epithelial and dermal cells are necessary for hair follicle morphogenesis during development and in hair growth restoration. FolliStem stimulates hair follicle stem cells to regenerate the existing follicles and differentiates hair follicle stem cells into mature hair follicles. This phenomenon was observed in our HHFSCs tissue culture system where we utilized FolliStem at 15.0 ng / ml concentration and it stimulated the growth and proliferation of human hair follicle stem cells. The HHFSC proliferation rate ranged from 80 -90% when compared to the non-treated hair follicle stem cells (control) n=20, p<0.05. In this study we also utilized human individuals (20-60 years age), 15 males and 15 females with mild to extreme hair loss problems.



The measurement of growth rate was determined by actual counts of the hair follicles on weekly bases as indicated in the table below:

Treatment Groups (Human)	Percent proliferation rate (day 90) compared to control	Percent proliferation rate(day 180) compared to control
Control { medium and severe baldness } 5 females & 5 males	No growth	No growth
Medium (50% bald) 5 females & 5 males	60%	75%
Severe (75% bald) 5 females & 5 males	55%	60%

From the above results we conclude that FolliStem stimulates hair regrowth by stimulation of HHFSCs to differentiate into hair follicles. All individuals in this study started to notice positive hair growth within 45 (n=10, p<0.05) to 60 (n=20, p<0.05) days of once daily topical application of FolliStem without any adverse reactions at the site of applications as observed by clinical dermatologist



- FolliStem™ stimulates the growth of hair only if the hair follicle is present or is in a dormant / arrested growth stage. The individuals utilizing this product have noticed positive changes with their hair growth. Images taken before and after the application of FolliStem™ show clear improvement. FolliStem™ supports human hair follicle proliferation and growth when applied topically once daily to a clean scalp. One of the major benefits of the product is that once treatment is stopped the hair gained remains intact as evidenced by the three month study. The product works equally well for both genders. At present, Celprogen is looking for ideal distributors and is interested in locating bulk manufacturers and distribution chains in both the United States and Internationally.

- Instruction for use: Once daily topical application:
 - 1. After taking a shower wash your scalp clean, before going to bed at night.
 - 2. Dry the scalp with a towel.
 - 3. Apply a drop to your fingertips.
 - 4. Massage evenly in the area of the bald spot as indicated in the images provided.
 - 5. You may want to track your own progress with before and after images, note only apply once daily.
 - 6. Please note this product works by stimulating the growth of the human hair follicle, if the hair follicles are not present this product will not work.
 - 7. The product is made with human adipose derived conditioned media with an active ingredient STEMC8007 that stimulates growth and proliferation of hair follicle.
 - 8. For Best results use prior to going to bed once daily



- **Ordering Information:**

- To place an order Toll free phone: **877-575-7759**
- Email: customer.care@celprogen.com
- Pricing \$50.00 per 30 ml, plus shipping and handling charges one month supply.
- Pricing \$150.00 per 90 ml, plus shipping and handling charges 3 month supply.
- Pricing \$300.00 per 180 ml, plus shipping and handling charges 6 month supply.
- Pricing \$600.00 per 360 ml, plus shipping and handling charges 12 month supply.
- You may call in your orders or you may email us with your orders.
- This product has not been evaluated by FDA.
- We can ship 2000 vials per order, an orders greater than 2000 vials would require 2 weeks lead time from the time the order is placed.



○ REFERENCES

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