M. Booster Hair is composed of 4 peptide complex which are innovative and cutting edged biomimetic peptides.
Strong Benefits

M.Booster Hair contains PATENTED RENOKIN peptide complex. ([www.renokin.com](http://www.renokin.com)) M.Booster Hair brings a visible and dramatic result with Dermaheal HL/Stem C’rum HL to male and female alopecia patients.

4 BIOMIMETIC PEPTIDES

**Oligopeptide-54 (CG-Nokkin)**
Strong BMP Blocker, promotes hair growth and inhibits de-pigmentation of hair. Strengthens hair while stimulating hair follicles to produce healthier hair. Helps blood circulation in the scalp and revitalizes hair follicles.

**Decapeptide-10 (CG-Keramin2)**
DKK-1 Down Regulator, promotes new hair cell proliferation and migration which induce strong hair follicle and hair shaft.

**Decapeptide-18 (CG-WINT)**
Stimulator of hair placode formation, generates de novo hair through activated β-catenin signal which is a key mechanism of differentiating hair follicle epithelial stem cells into hair keratinocyte cells.

**Oligopeptide-42 (CG-Fibramin)**
Promotes hair grow and inhibits de-pigmentation of hair. Helps blood circulation in scalp and revitalizing hair follicles.

Mechanism
Indication and Usage

<table>
<thead>
<tr>
<th>Product</th>
<th>Dermaheal HL</th>
<th>Dermaheal Stem C’rum HL</th>
<th>M.Booster Hair</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st step</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5ml solution × 10 vials</td>
<td>100mg powder × 5 vials</td>
<td>100mg powder × 5 vials</td>
</tr>
<tr>
<td>2nd step</td>
<td>Injected by syringe, meso gun or treated by micro-needle roller to a target area. Specific usage is shown below</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Injection Methods: Manual(syringe or micro-needle roller) or Meso gun</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Injection Techniques: Serial Puncture or Nappage or Micro-needle rolling</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Injection Depth: Dermal-epidermal junction or Superficial dermis</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Injection Area: Scalp</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Application Method

Application
- Alopecia for Man and Woman
- Man and Woman who have a general thinning of hair on top of the scalp
- Man and Woman with excessive dry scalp
- Consecutive treatment is necessary to reach efficacy expected

Regular Treatment
1st Phase: 1 session per week for the 1st month (Total 4 sessions for 4 weeks)
2nd Phase: 1 session per 2 weeks for the 2nd month (Total 2 sessions for 4 weeks)
3rd Phase: 1 session per month for the 3rd month (Total 1 session for 4 weeks)
Treatment Period: 12 weeks (3 months)

Determine the ideal treatment depending on patients’ hair and scalp condition.

Shelf life and storage
- Shelf life: 2 years from production
- Period after opening: Stable for 5 days in refrigerator
- Storage: Store between 2°C-25°C. Protect from sunlight
in-vivo test
Human Clinical test with M.Booster Hair

Before

After

Sex : Male
Age : 40'
Treatment : Mesotherapy with Dermaheal HL
Period : 3m

Before

After

Sex : Male
Age : 50'
Treatment : Mesotherapy with Dermaheal HL
Period : 4m

Before

After

Sex : Male
Age : 60'
Treatment : Mesotherapy with Dermaheal HL
Period : 5m
M. Booster Face is composed of 3 peptide complex which are innovative and cutting edged biomimetic peptides.
**Strong Benefits**

M. Booster Face contains PATENTED 3 peptide complex. M. Booster Face improves skin problems such as aged skin with pigmentation, acne skin and enlarged pore skin etc. M. Booster Face brings a visible and dramatic result with Dermaheal SR/Dermaheal SB/Stem C’rum SR.

**3 BIOMIMETIC PEPTIDES**

**Oligopeptide-51 (CG-Purilux)**
Decreases tyrosinase, TRP-1 and TRP-2 expression. Reduces and prevents fine lines and wrinkles by actively generating new skin cells and increasing ECMs.

**Oligopeptide-73 (CG-EPG)**
Reduces and prevents fine lines and wrinkles by generating skin cells. Strengthens skin elasticity by stimulating collagen and elastin synthesis.

**Oligopeptide-34 (CG-TGP2)**
Stimulates fibroblasts proliferation and strongly up-regulates ECMs expression.

**Mechanism**

**ECM Expression by Peptides**

<table>
<thead>
<tr>
<th>Peptide</th>
<th>Relative rate(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>100</td>
</tr>
<tr>
<td>CG-EPG</td>
<td>180</td>
</tr>
<tr>
<td>CG-Purilux</td>
<td>160</td>
</tr>
<tr>
<td>CG-TGP2</td>
<td>140</td>
</tr>
</tbody>
</table>

- Elastin
- Fibronectin
- Laminin
- Hyaluronic acid

**STEP 1**

- CG-Peptide
- Receptor

**STEP 2**

- Gene transcription
- Inhibition of Apoptosis
- Migration
- Cell Proliferation

**STEP 3**

- FGF-1
- SDF

**STEP 4**

- Gene Expression
Indication and Usage

<table>
<thead>
<tr>
<th>Product</th>
<th>Dermaheal SR, HSR, SB</th>
<th>Dermaheal Stem C’rum SR</th>
<th>M.Booster Face</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st step</td>
<td>5ml solution x 10 vials</td>
<td>100mg powder x 5 vials</td>
<td>100mg powder x 5 vials</td>
</tr>
</tbody>
</table>

2nd step
- Injected by syringe, meso gun or treated by micro-needle roller to a target area. Specific usage is shown below
- Injection Methods: Manual(syringe or micro-needle roller) or Meso gun
- Injection Techniques: Serial Puncture or Nappage or Micro-needle rolling
- Injection Depth: Dermal-epidermal junction or Superficial dermis
- Injection Area: Face

Application Method

Application
- Man and Woman who have aged spots and hyper-pigmentation
- Man and Woman who have an aged skin with fine lines and wrinkles
- Man and Woman who have enlarged pore skin
- Man and Woman who have acne skin
- Man and Woman with excessively dry skin

Regular Treatment
1st Phase: 1 session per week for the 1st month [Total 4 sessions for 4 weeks]
2nd Phase: 1 session per 2 weeks for the 2nd month [Total 2 sessions for 4 weeks]
3rd Phase: 1 session per month for the 3rd month [Total 1 session for 4 weeks]
Treatment Period: 12 weeks (3 months)

Shelf life and storage
- Shelf life: 2 years from production
- Period after opening: Stable for 5 days in refrigerator
- Storage: Store between 2°C~25°C. Protect from sunlight

---

M. Booster Face 7
in-vivo test
Human Clinical test with M.Booster Face

Sex: Female  
Age: 40’  
Treatment: Mesotherapy with Dermaheal HSR  
Period: 1m

Sex: Female  
Age: 30’  
Treatment: Mesotherapy with Dermaheal SB  
Period: 2m

Sex: Female  
Age: 30’  
Treatment: Mesotherapy with Dermaheal SR  
Period: 1m
M. Booster Body is composed of **3 peptide complex** which are innovative and cutting edged biomimetic peptides.
### Strong Benefits

M.Booster Body contains PATENTED 3 peptide complex. M. Booster Body prevents lipid formulation in adipocytes and activates fat burning. M.Booster Body brings a visible and dramatic result with Dermaheal LL.

### 3 BIOMIMETIC PEPTIDES

- **Tripeptide-41 (CG-Lipoxyn)**: Helps to restrain the accumulation of lipid and promotes lipolysis.
- **Oligopeptide-61 (CG-Cellsolin)**: Decreases expression of adipogenic factors.
- **Oligopeptide-51 (CG-Purilux)**: Down-regulates expression of lipogenesis relative genes.

### Mechanism

![Mechanism Diagram](image)

### Indication and Usage

<table>
<thead>
<tr>
<th>Product</th>
<th>Dermaheal LL</th>
<th>M.Booster Body</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st step</strong></td>
<td><img src="image" alt="Dermaheal LL" /></td>
<td><img src="image" alt="M.Booster Body" /></td>
</tr>
<tr>
<td></td>
<td>5ml solution × 10 vials</td>
<td>100mg powder × 5 vials</td>
</tr>
<tr>
<td><strong>2nd step</strong></td>
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<td>- Injection Techniques: Serial Puncture or Nappage or Micro-needle rolling</td>
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<td></td>
<td>- Injection Depth: Dermal-epidermal junction or Superficial dermis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Injection Area: Body</td>
<td></td>
</tr>
</tbody>
</table>
Application Method

Application
- Man and Woman who have oversized skin
- Man and Woman who have cellulite
- Man and Woman who need to reduce fat tissues

Regular Treatment
1st Phase: 1 session every week for the first 1 month
2nd Phase: 1 session per every 2 weeks for the second 1 month
3rd Phase: 1 session a month for the third 1 month
4th Phase: 1 session 2~3 months for up to 6 months

Determine the ideal treatment depending on patients’ Body condition.

Shelf life and storage
- Shelf life: 2 years from production
- Period after opening: Stable for 5 days in refrigerator
- Storage: Store between 2°C~25°C. Protect from sunlight

in-vivo test
Human Clinical test with M.Booster Body

<table>
<thead>
<tr>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="Before" /></td>
<td><img src="Image" alt="After" /></td>
</tr>
</tbody>
</table>

Sex: Female  
Age: 40’  
Treatment: Mesotherapy with Dermaheal LL  
Period: 1m

<table>
<thead>
<tr>
<th>Before</th>
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</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="Before" /></td>
<td><img src="Image" alt="After" /></td>
</tr>
</tbody>
</table>

Sex: Female  
Age: 50’  
Treatment: Mesotherapy with Dermaheal LL  
Period: 1m

<table>
<thead>
<tr>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="Before" /></td>
<td><img src="Image" alt="After" /></td>
</tr>
</tbody>
</table>

Sex: Male  
Age: 50’  
Treatment: Mesotherapy with Dermaheal LL  
Period: 1m