

Hi, NMN

# NMN Recovery. The New Standard.

## PN 4% + NMN Skin Booster

A professional regenerative skin booster built around high-purity 4% polynucleotide with NMN support for advanced aesthetic protocols.

100 mg PN per 2.5 mL syringe



4%

PN CONCENTRATION

100 mg

PN PER SYRINGE

2.5 mL

FORMAT

# Hi,NMN

## Brand Positioning

# Beyond temporary calming. Built for skin architecture.

We have always believed that the true value of a regenerative product lies not just in temporary soothing or anti-inflammatory effects, but in its ability to deliver lasting structural restoration.

While previous PN-based solutions have provided benefits in calming, healing, and revitalizing the skin, they have often fallen short in achieving the full **scaffold effect** — the essential framework for true dermal reconstruction.

That is why we focused our efforts on creating a high-concentration PN formulation, not merely to treat symptoms on the surface, but to **rebuild the architecture of the skin from within**.

With 4% ultra-pure PN, our product is designed to go beyond regeneration, aiming to support **tissue remodeling, wound healing, and long-term dermal elasticity** — providing results that are not only visible, but biologically sustainable.



# Hi,NMN

## Formula Architecture

# Advanced Dual-Action Skin Regeneration with High-Dose PN & NMN

## PN

Polynucleotide

High-purity 4% PN stimulates cellular repair, enhances collagen synthesis, and improves skin structure and elasticity.



## NMN

Nicotinamide Mononucleotide

A clinically potent precursor to NAD\* that boosts cellular energy, accelerates regeneration, and helps counteract signs of aging.

## HA

Hyaluronic Acid

Deeply hydrates and supports skin barrier function, enhancing elasticity and overall skin quality.

Hi,NMN PN 4% + NMN Skinbooster is a next-generation dermal injectable designed exclusively for professional use, combining **ultra-pure 4% Polynucleotide (PN)** with clinically potent **Nicotinamide Mononucleotide (NMN)** to maximize regenerative outcomes at the cellular level.

# Main Functional Overview

For a rejuvenating effect only **4% PN** can deliver — with **NMN** to sustain it.

From regeneration to cellular energy — PN meets NMN for **results you can feel instantly**.

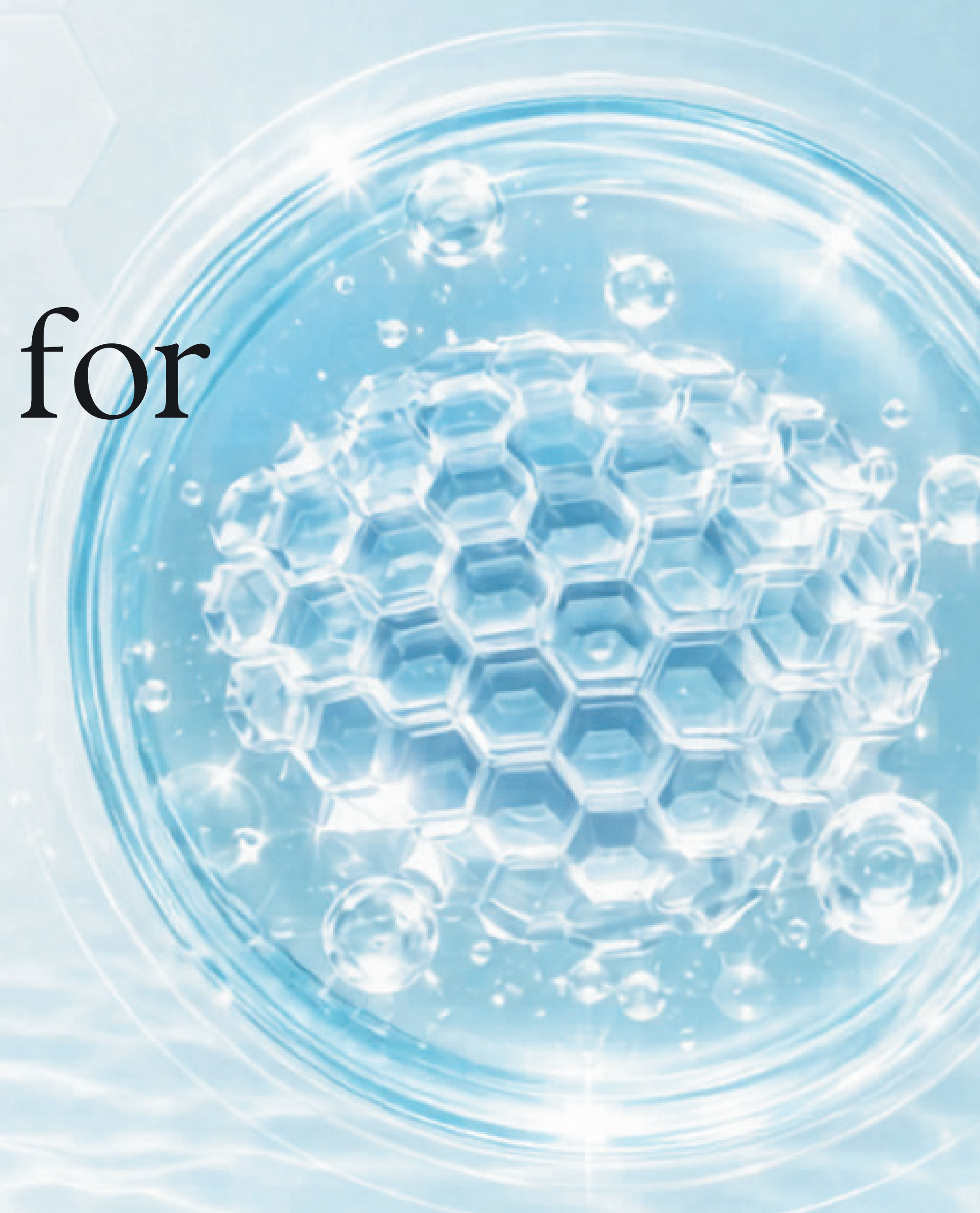
Category	Function Description	Low-Dose PN (<2%) Alone	Hi,NMN PN 4% + NMN
 Tissue Repair	Promotes tissue regeneration & wound healing	✓	✓
 Anti-Inflammatory	Reduces inflammation via A2A receptor modulation	✓	✓
 Skin Hydration	Enhances dermal hydration through high molecular weight PN	✓	✓
 ECM Remodeling	Reconstructs extracellular matrix (collagen, elastin synthesis)	✗	✓
 Long-Lasting	Provides durable volume and tissue support	✗	✓
 Fibroblast Proliferation	Stimulates fibroblast activity and growth factor expression (PDGF, FGF, etc.)	✗	✓
 NAD+ Activation	Boosts cellular metabolism and ATP production via SIRT1 pathway	✗	✓
 Intrinsic Anti-Aging	Delays cellular senescence; enhances DNA repair and antioxidant defenses	✗	✓
 Skin Brightening	Improves overall tone and radiance (via antioxidant and circulation pathways)	Limited	✓
 Post-Procedure Recovery	Accelerates healing after laser, RF, or needling treatments	✗	✓

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# Stronger than 2%. Designed for Longevity.

## Crystal-like packing from 4% PN

At higher concentrations, PN molecules self-assemble into a highly ordered, crystal-like structure. This unique molecular assembly enhances resistance to enzymatic degradation, resulting in prolonged and sustained effectiveness for healthier, firmer, and more resilient skin.



Fibroblast proliferation



Improve roughness



Increase thickness and density of dermis



Improve saggy skin and skin tone

Concentration

Scaffold Effect

Resistance to Degradation

Considerations

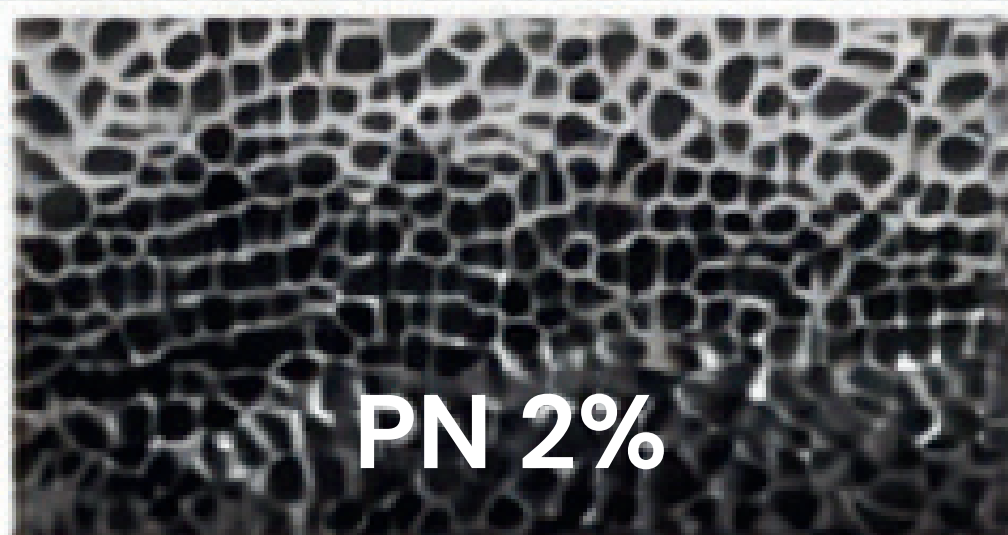


PDRN

Low to moderate

Low to moderate

Rapid diffusion

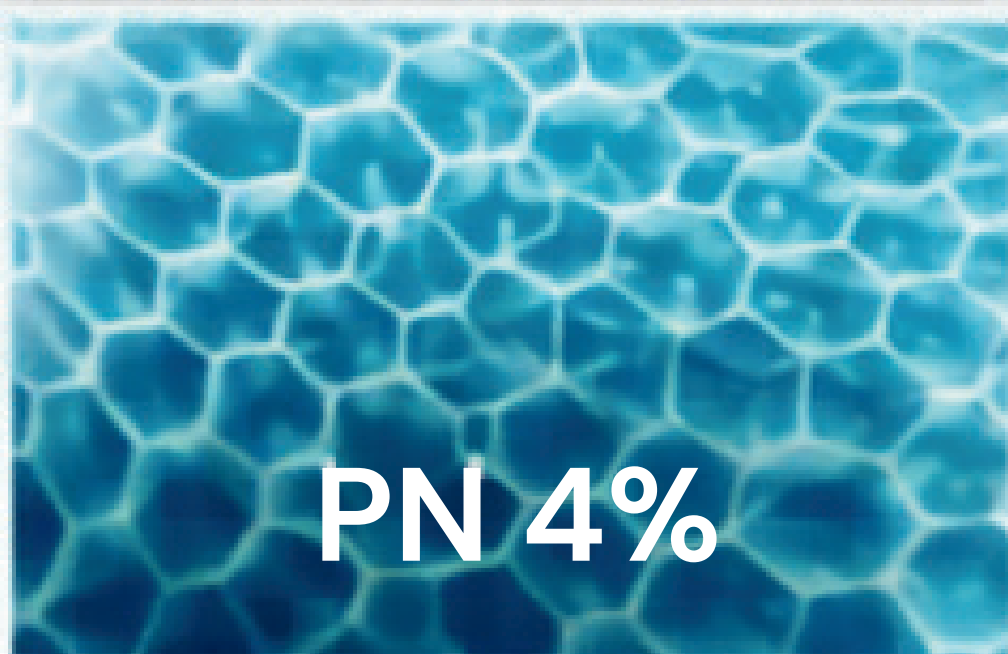


PN 2%

High, increased self-assembly

Prolonged effect

Risk of device clogging, potential phase separation



PN 4%

Very high crystal-like packing

Very high superior resistance, designed for longevity

Potential instability reduced, bioavailability of active ingredients enhanced

## MECHANISM 1

# PN supports regenerative signalling.

Crystal-like PN delivers multi-pathway activation that drives tissue repair from within.

TLR9



A2A



P2



01

### Sustained Adenosine Release for A2A Receptor Activation

Crystal-packed PN degrades slowly and continuously, releasing adenosine over an extended period. This sustained release ensures prolonged stimulation of A2A receptors, enhancing fibroblast activation, anti-inflammatory response, and ECM remodelling.



02

### Formation of a Physical Gel-like Matrix (Scaffold)

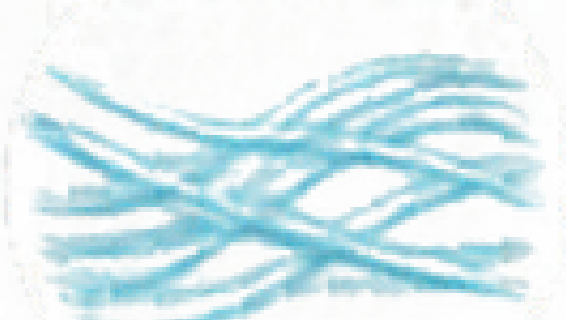
At high concentrations, high-molecular-weight PN chains entangle to form a viscoelastic gel, acting as a 3D structural matrix that provides a supportive microenvironment for cells, promoting tissue integration and repair.



03

### Resistance to Nuclease Degradation

The crystal-like packing of PN confers greater resistance to endonucleases and exonucleases. This enhanced structural stability enables PN to remain intact in tissue for longer durations, maintaining its physical and biological function.



04

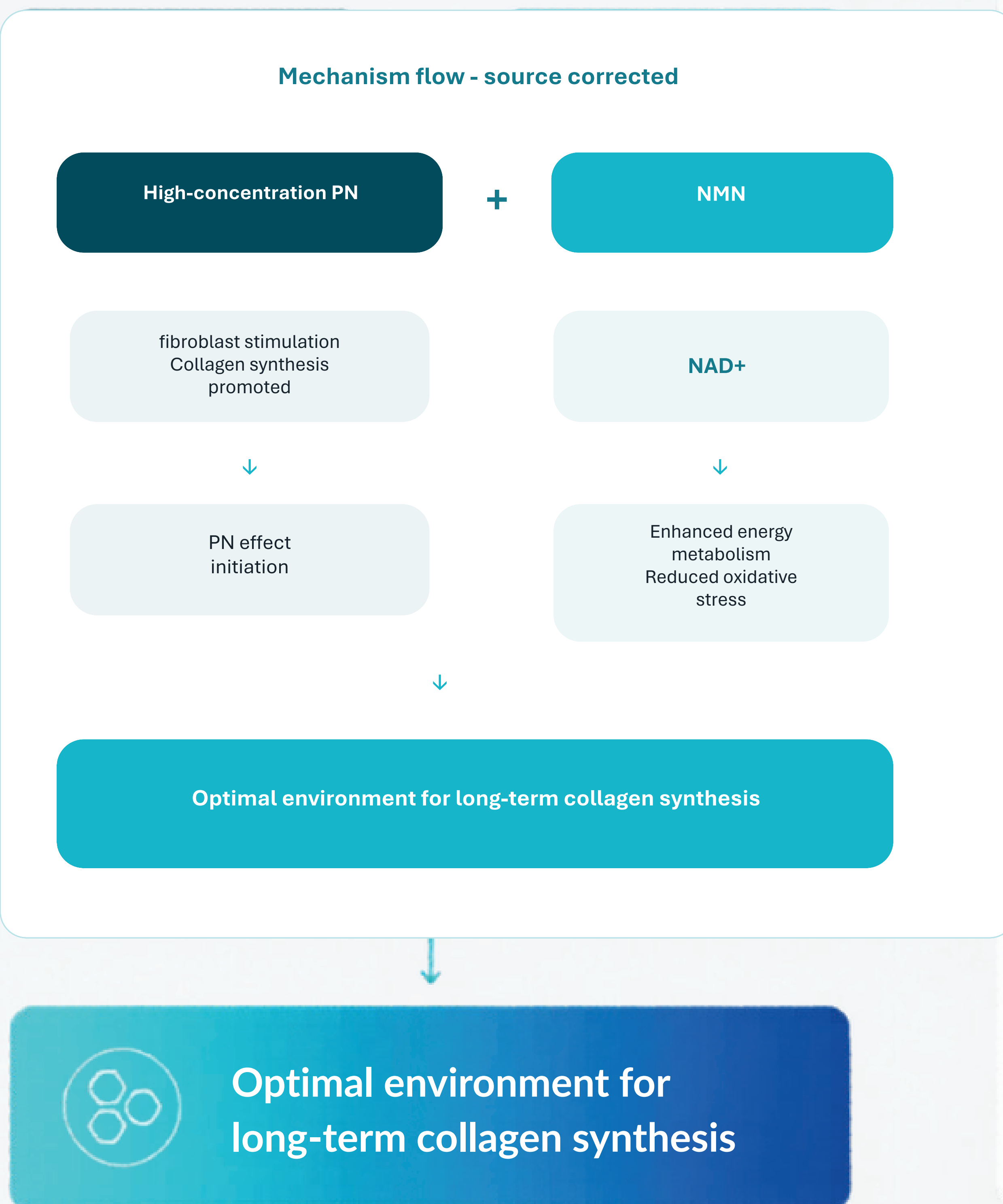
### Stimulation of Collagen Production & ECM Recovery

The scaffold modulates the cellular microenvironment, inducing the synthesis of collagen, elastin, and hyaluronic acid. Clinically, this translates to increased dermal thickness, improved tensile strength, and faster wound closure.

# Designed to Work Deeper

## Role of Synergistic Factor NMN

NMN (Nicotinamide Mononucleotide) serves as a precursor in the NAD+ biosynthesis pathway, enhancing cellular energy metabolism and protecting cells from oxidative stress. This supports dermal fibroblast survival and functional activity, creating an optimal environment for long-term collagen synthesis. Thus, NMN complements the regenerative and fibroblast-stimulating effects of high-concentration PN, playing a key synergistic role in prolonging and amplifying the skin booster's efficacy.



## Cellular Support



Stress resistance



DNA repair



Epigenetics



Reduce inflammation



Cell survival



Gene expression

Cellular stress response

Mitochondrial function

# How to Use

Professional guidance for optimal results.



## 1 RECIPE GUIDE

Original	No Pain + Highest Result (+ Multi Injector Device)
2.5cc / 1 syringe	2.5cc + Hi,DR 2.5 cc + Lidocain 1.5 cc + Hyaeron 2.5 cc

<p><b>Total Volume per Session</b> ~2.0~2.5 mL (adjustable)</p>	<p><b>Recommended Needle</b> 31G 4mm or 30G 13mm</p>	<p><b>Device</b> Manual syringe / injector (optional)</p>
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2 ADVANCE PREPARATION	3 CLINICAL TIP	4 TREATMENT ZONES & INJECTION POINTS												
<ul style="list-style-type: none"> <li>Cleanse and disinfect with chlorhexidine / alcohol swab</li> <li>Optional topical anaesthesia (EMLA or equivalent, 20–30 mins)</li> <li>Mark key zones to avoid vessels (especially glabella and periorbital)</li> </ul>	<ul style="list-style-type: none"> <li>Hi,NMN PN 4% is viscous. Pre-warming the syringe or using a 30G x 13mm needle improves flow.</li> <li>Slight wheal formation is acceptable in intradermal papule technique.</li> <li>For patients with photoaged skin or inflammation-prone areas, combine with NMN or antioxidants in future sessions.</li> <li>Observe for Tyndall effect in thin-skin zones like tear trough — go superficial but not too close to epidermis.</li> </ul>	<table border="1"> <thead> <tr> <th>Zone</th> <th>Interval</th> <th>Volume per Point</th> <th>Technique / Notes</th> </tr> </thead> <tbody> <tr> <td> Full Face</td> <td rowspan="3">1 ~ 1.5 cm</td> <td>0.02 ~ 0.03 mL</td> <td rowspan="3">- Intradermal - Microdroplet, Serial Puncture</td> </tr> <tr> <td> Neck</td> <td>0.01 ~ 0.03 mL</td> </tr> <tr> <td> Hand</td> <td>0.05 ~ 0.07 mL</td> </tr> </tbody> </table>	Zone	Interval	Volume per Point	Technique / Notes	Full Face	1 ~ 1.5 cm	0.02 ~ 0.03 mL	- Intradermal - Microdroplet, Serial Puncture	Neck	0.01 ~ 0.03 mL	Hand	0.05 ~ 0.07 mL
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## 5 TIMELINE OF DOWNTIME AND VISIBLE EFFICACY

Category	Day0	Day1	Day2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10	Day11
DOWNTIME	Erythema	■■■■■■■■■■										
	Needle Marks	■■■■■■■■■■										
	Lumps	■■■■■■■■■■										
	Dryness		■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■						
EFFICACY	Smoothness				■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
	Hydration				■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
	Oil control						■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
	Skin Tone								■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
	Tightness										■■■■■■■■■■	■■■■■■■■■■

## 6 POST-TREATMENT GUIDELINES

<p>Avoid makeup for 12–24 hours</p>	<p>Cold compress for 10 mins immediately post-injection if needed</p>	<p>Avoid vigorous exercise, alcohol, and sauna for 48 hours</p>	<p>Recommend mild moisturising and photoprotection</p>
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4%

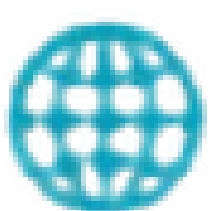
PN CONCENTRATION

100<sub>mg</sub>

PN PER SYRINGE

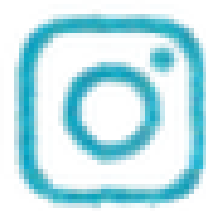
2.5 mL

FORMAT



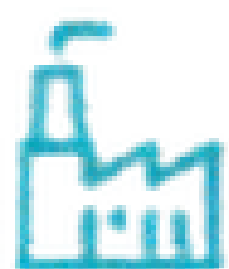
Web

[www.hinmn.com](http://www.hinmn.com)



Instagram

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Manufacturer

LOOKUP MEDICAL, LTD  
142, Gasan Digital 1-ro,  
Geumcheon-gu, Seoul,  
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UK Distributor

DERMA SUPPLY UK LTD  
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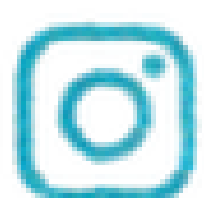
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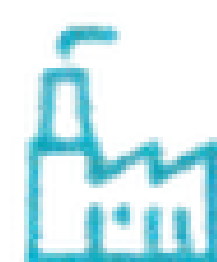
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**Recommended Needle**

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30G 13mm



**Device**

Manual syringe / injector (optional)




## 2 ADVANCE PREPARATION

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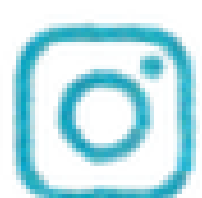
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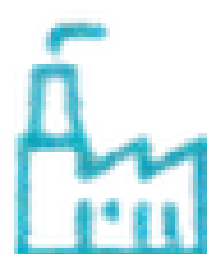
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