

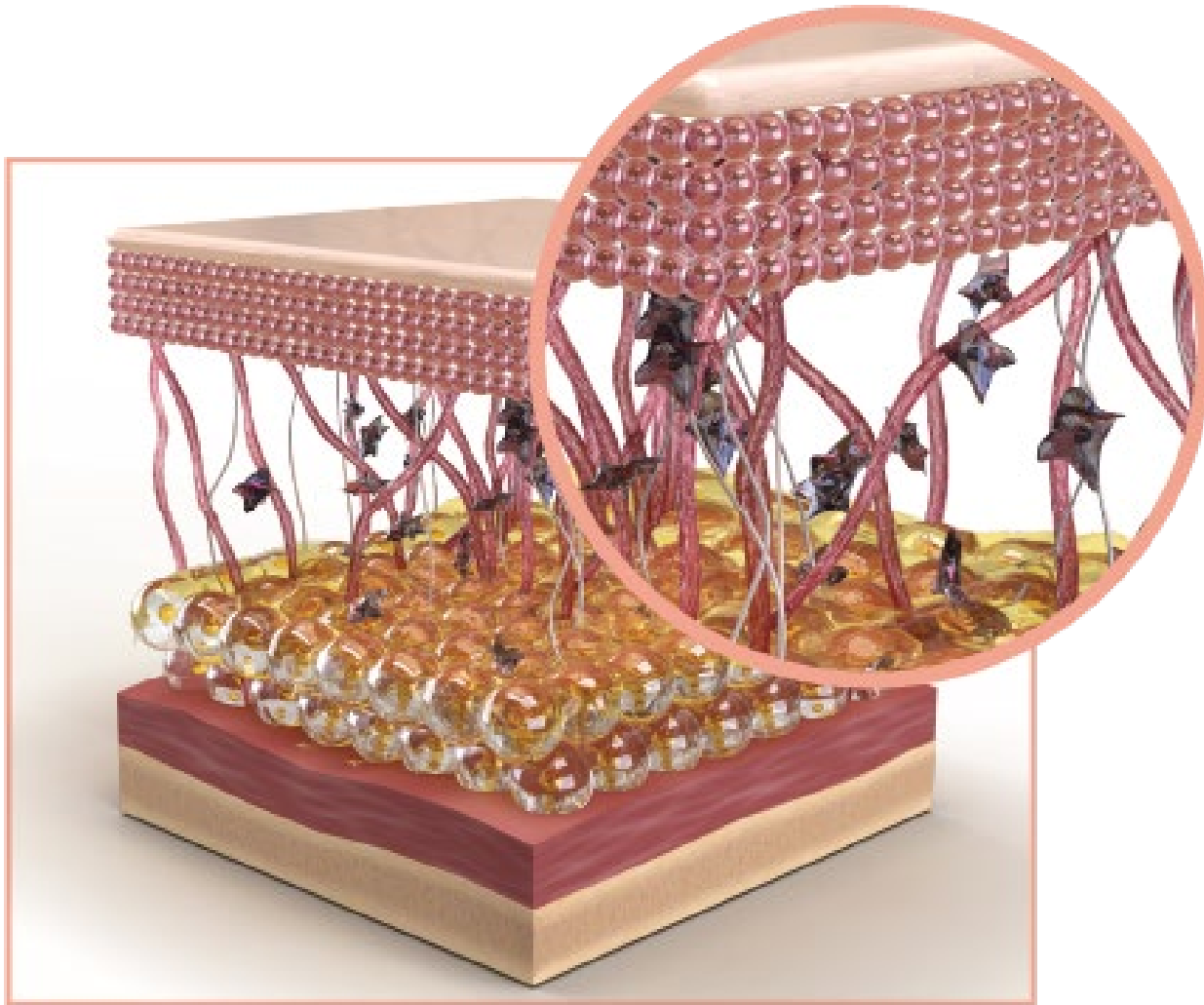
VAMP™

Clinical Presentation



What is VAMP™

VAMP™
BY PROLLENIUM®



VAMP™ is a topical, sterile bio-revitalizing solution enriched with a powerful blend of Vitamins, Amino acids, Minerals and Polydeoxyribonucleotides (PDRN) for skin rejuvenation and revitalization.

It helps to improve skin tonicity, tighten pores and smooth wrinkles. Overall, restoring skin's glow, hydration and improving skin texture.

• 11 Vitamins

11 Vitamins

D-Biotin
Choline chloride
D-Calcium pantothenate (B5)
i-Inositol
Niacinamide
Pyridoxine hydrochloride
Thiamine hydrochloride
Folic acid
Riboflavin
Vitamin B12
p-Amino benzoic acid

6 Minerals

Sodium chloride (NaCl)
Potassium chloride (KCl)
Sodium phosphate dibasic (Na₂HPO₄)
Potassium phosphate monobasic (KH₂PO₄)
Magnesium sulfate (MgSO₄)
Calcium chloride (CaCl₂)

2 Polymers

Sodium hyaluronan
Sodium DNA

• 6 Minerals

• 23 Amino acids

23 Amino Acids

L-Tryptophan
L-Isoleucine
L-Leucine
L-Valine
L-Methionine
L-Phenylalanine
L-Lysine hydrochloride
L-Threonine
L-Histidine free base
Glycine
L-Proline
L-Alanine
L-Arginine free base
L-Asparagine-H₂O
L-Serine
L-Cystine
L-Aspartic acid
L-Glutamic acid
L-Glutamine
L-Tyrosine
Hydroxyl-L-proline
Taurine
Ornithine

• PDRN

Other components

Dextrose
Sodium acetate

Antioxidants

Ascorbyl Glucoside
L-Glutathione

Vitamins:

- Speed up collagen synthesis

Amino acids:

- Build extracellular matrix proteins, mainly collagen

Minerals:

- Help regulate the body's water balance

PDRN:

- Inhibits activation of inflammatory activating proteins caused by Reactive Oxygen Species (ROS) and leads to collagen production

The Impact of VAMP™ on the Skin

VAMP™
BY PROLLENIUM®



Pullar JM, Carr AC, Vissers MCM. Nutrients 2017;9(8):866.
Aguirre-Cruz G, León-López A, Cruz-Gómez V et al. Antioxidants (Basel) 2020;9(2):18.
Michalak M, Pierzak M, Kręcis B et al., Nutrients 2021;13(1):203.
Ohnari H, Sekiya M, Naru E et al., Chem Pharm Bull (Tokyo) 2021;69(7):652-660.
Bravo B, Correia P, Gonçalves Junior JE et al., Dermatol Ther 2022;35(12):e15903.
Rahman A, Rehmani R, Pirvu DG et al., Mar Drugs 2024;22(4):159.
Siquier-Dameto G, Boadas-Vaello P, Verdú E. Antioxidants (Basel) 2024;13(7):770.

- Manufactured by Prollenium, VAMP™ delivers the ultimate skin rejuvenation experience using only the highest quality ingredients- setting a new standard for skin revitalization. Its powerful blend of vitamins, amino acids, minerals and PDRN work synergistically to promote hydration and provide a radiant, youthful complexion.

Key Differentiators:

- Made in North America
- Made in a GMP facility
- Medical-grade ingredients
- Nutrient rich ingredients + PDRN



VAMP™

Vitamins

Amino Acids

Minerals

PDRN (antioxidant)
(1 mg/mL - 500 kD)

HA (5 mg/mL- 1 MDa)

- HA* (1MDa) and PDRN (500 kD) of 1 mg/mL are optimal for sterile filtration as the mixture is not highly viscous and can be processed easily
 - Filtration preserves the components (vitamins, amino acids) which are sensitive moist-heat sterilization typically used in fillers
- **VAM** from VAMP provide nutrients to the skin
- **P** from VAMP exhibits anti-inflammatory properties helping to reduce damage from oxidation

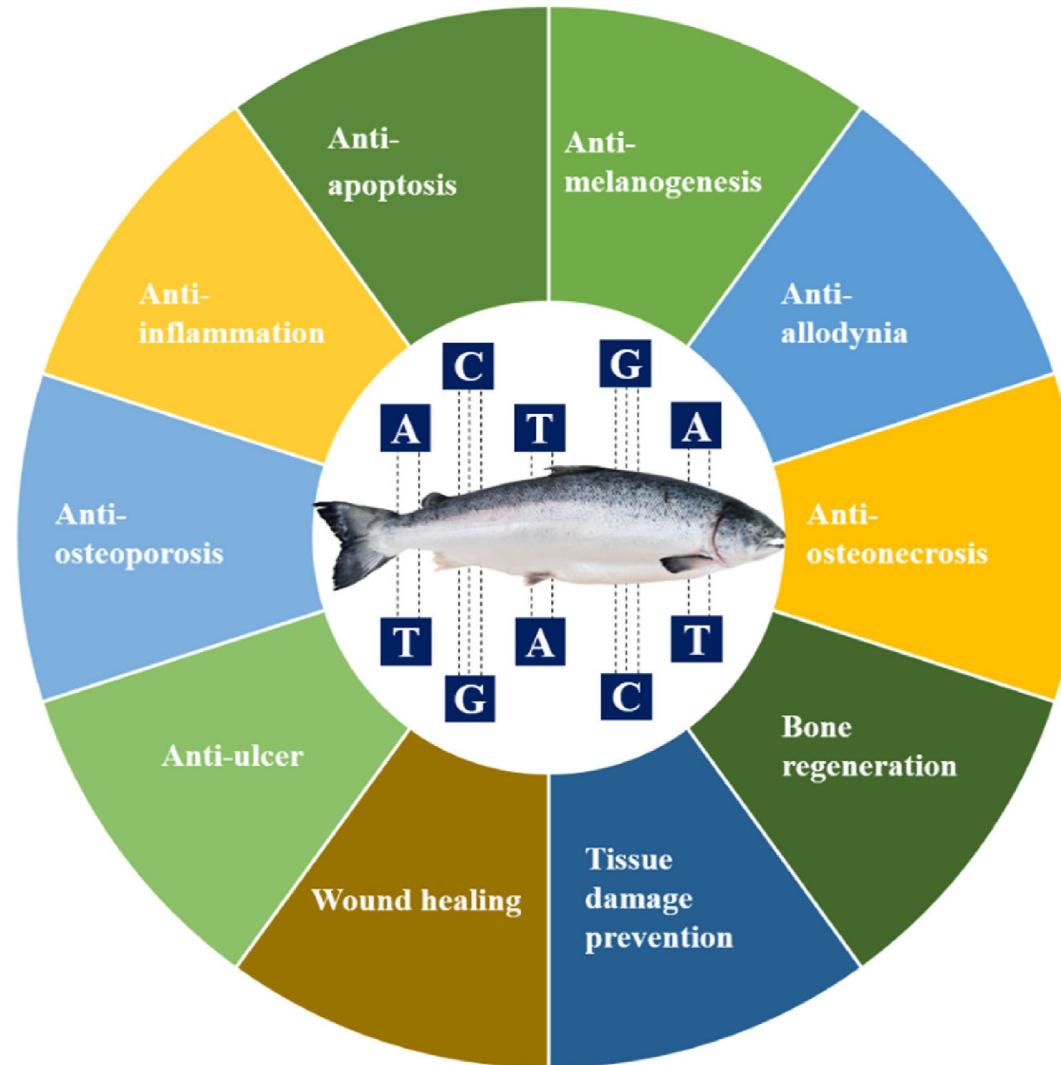
*HA is the same source as Revanesse® Versa+™ (HTL) but different molecular weight. (Molecular weight of HA in Versa+™ is 2.5 MDa)

PDRN (Polydeoxyribonucleotides) are fragments of low molecular weight DNA extracted from wild salmon.

- Salmon DNA has 95% similarity to human DNA ¹
- Highly purified and biocompatible ²
- Inhibits the signs of aging due to free radicals ²
- Tightens and improves skin's elasticity ²

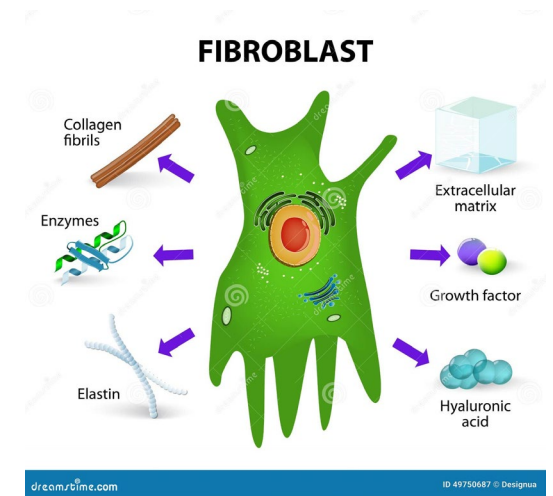
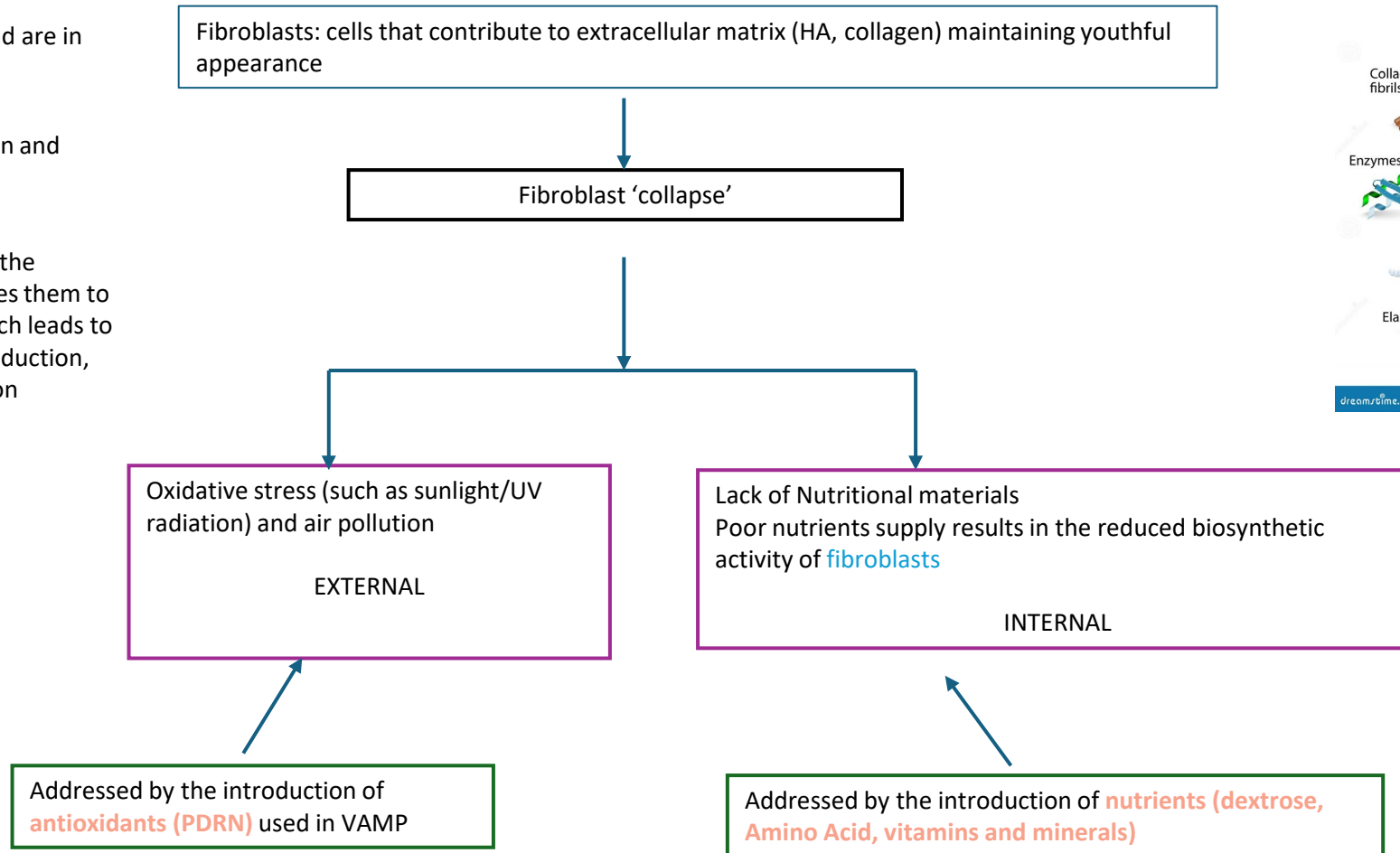
1. Kim J, Yang J, Ku M et al., *Korean J Otolaryngology-Head Neck Surg.* 2023;66(2):106-112.

2. Khan A, Wang G, Zhou F et al., *CJPRS.* 2022;4(4):187-193.



How does PDRN work?

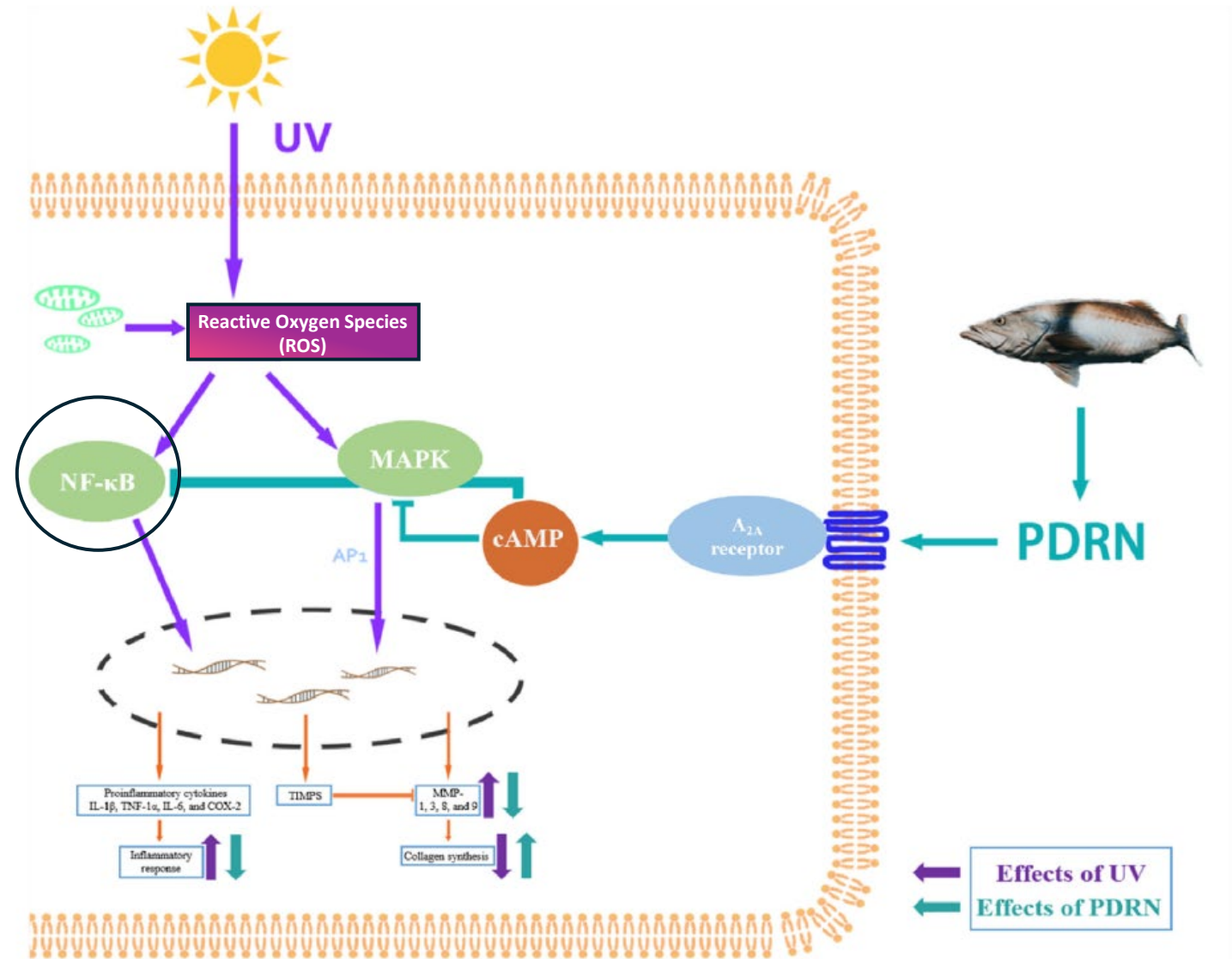
- Fibroblasts are the major component of the skin and are in the dermal layer
- Building blocks for collagen and elastin
- Polynucleotides attach to the fibroblast, which stimulates them to work more efficiently which leads to more collagen, elastin production, and fibroblast reproduction



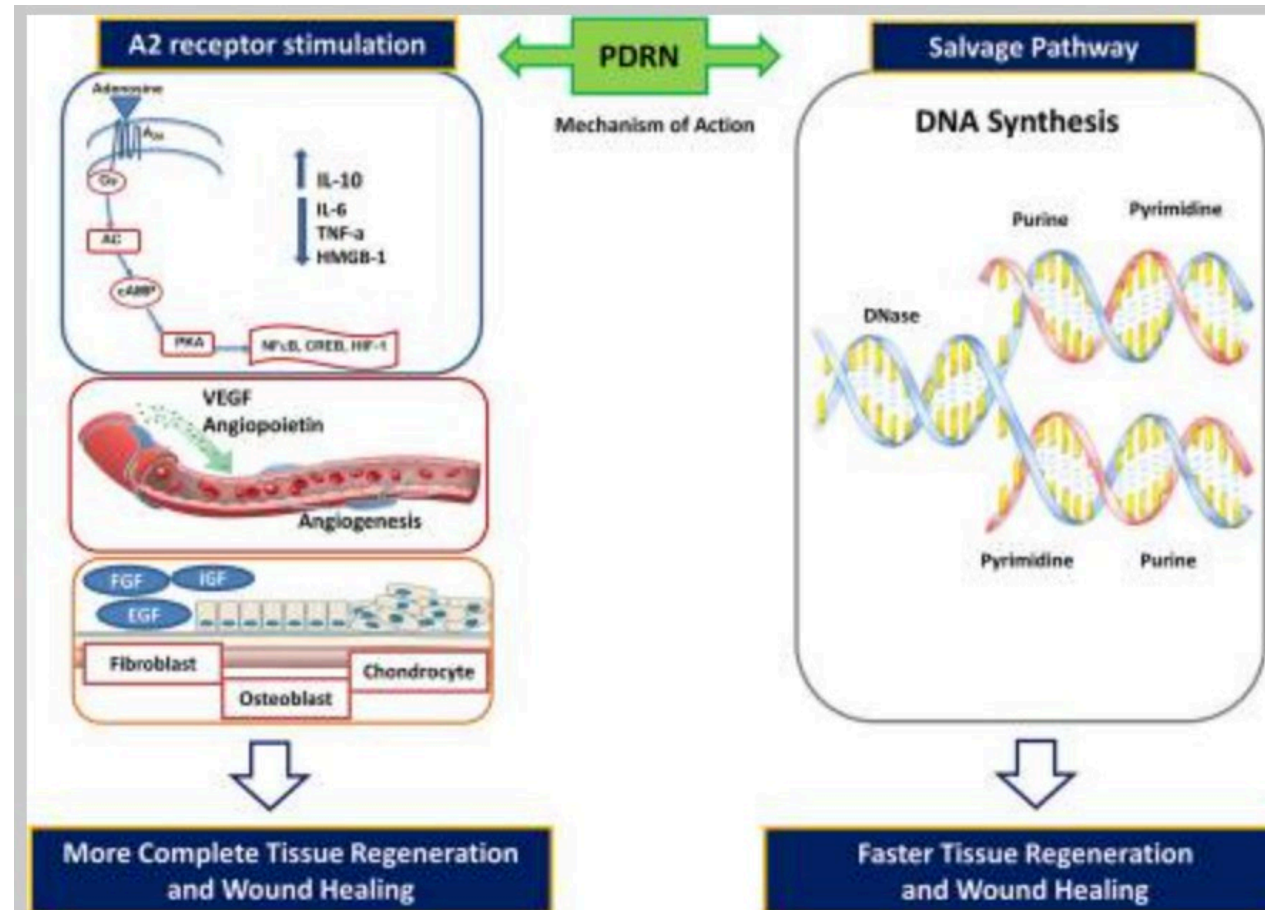
What is PDRNs mechanism of action in skin anti-aging?

The production of Reactive Oxygen Species (ROS) initiates a cascade of events starting with the activation of the mitogen-activated protein kinase (MAPK) and NF- κ B signaling pathways, which eventually lead to an increased expression of pro-inflammatory cytokines and matrix metalloproteinases (MMP) and a decrease in TGF- β /Smad signaling and collagen synthesis.

The mechanism of action of PDRN involves the activation of the A_{2A} receptor. This leads to the blocking of the NF- κ B pathway, thus inhibiting the release of several pro-inflammatory cytokines and stimulating the release of anti-inflammatory cytokines.



What is PDRNs mechanism of action in skin anti-aging?



PDRN mode of action: activation of adenosine A2 receptors and the “salvage pathway”

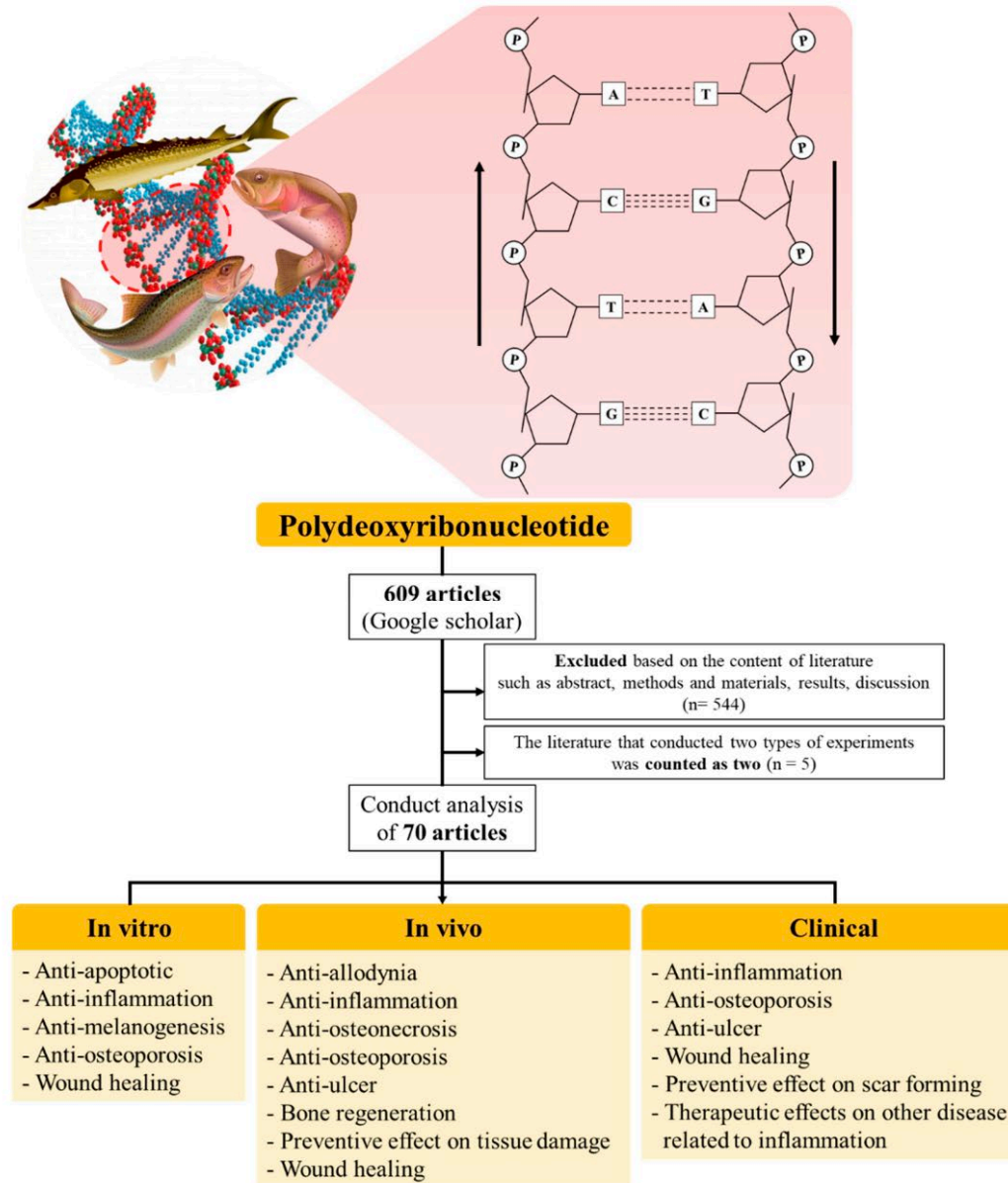


Figure 1. A wide range of therapeutic applications in the field of PDRN.

How can VAMP™ be administered?

VAMP™
BY PROLLENIUM®

Using VAMP™ in combination with micro-channeling/mesotherapy aesthetic devices that allow the solution to penetrate into the stratum corneum could potentially make it more effective.

- Derma Roller
- Microneedling
- Post Laser

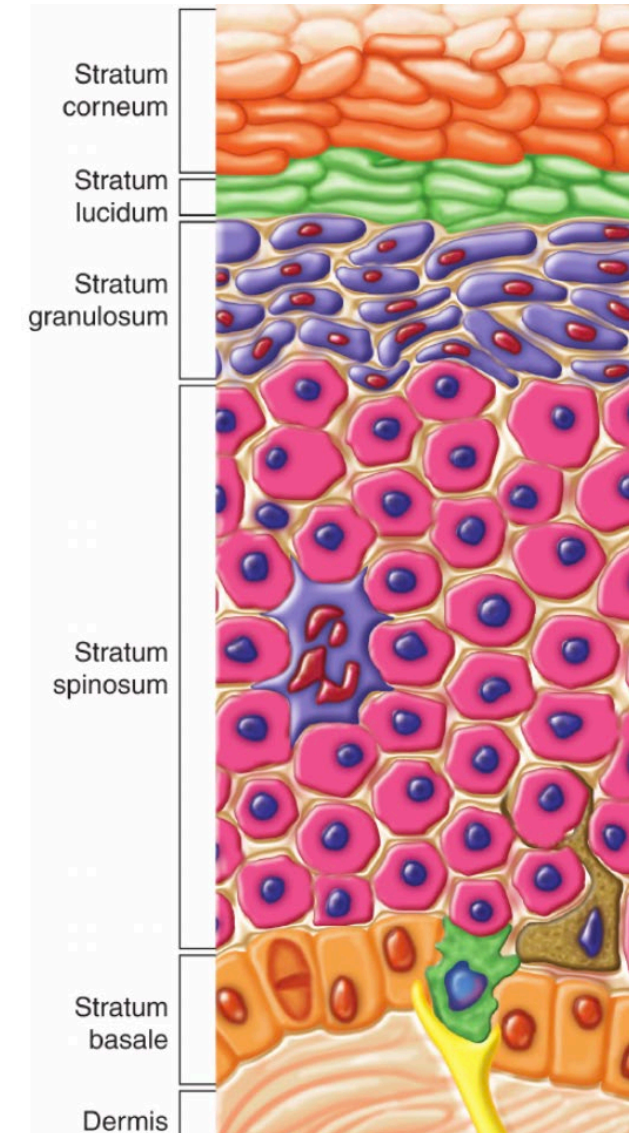


Recommended Protocol

- 3 treatments at intervals of 30 days
- Additional treatment every 3 – 6 months if the practitioner deems it necessary based on skin quality

This product is intended for topical use only and to be applied by a healthcare provider

- The stratum corneum is the most superficial and barrier layer of the skin. According to the FDA definition, the stratum corneum is “the superficial or outer layer of the epidermis, consisting of several layers of flat, keratinized, non-viable, peeling cells”.
- It's considered a dead cell layer of skin, as opposed to living layers of skin.
- The thickness of the stratum corneum can vary based on age, sex, and ethnicity.
 - A darker skin male will most likely have thicker stratum corneum than that of an elderly Caucasian female.



Regulatory Considerations for Microneedling Products Guidance for Industry and Food and Drug Administration Staff. Document issued on November 10, 2020. Retrieved from <https://www.fda.gov/media/107708/download#:~:text=Stratum%20corneum:%20The%20stratum%20corneum,to%20living%20layers%20of%20skin>.

Lecturing Notes, Assignment, Reference, Wiki description explanation, brief detail. *The Massage Connection ANATOMY AND PHYSIOLOGY: Integumentary System: Structure of the Skin.* Retrieved from https://www.brainkart.com/article/Structure-of-the-Skin_20884/Study_Material

VAMP™

Multi-Vitamin Serum / Sérum Multivitaminé
Net Wt 2 x 1.00 mL / 0.034 fl. OZ (US)

Prolenium US Corporate Office
9121 Anson Way, Suite 200
Raleigh, NC 27615
877.202.0987

Prolenium Medical Technologies, Inc. Global
Headquarters.
29 East Wilmot Street
Richmond Hill, Ontario, L4B 1A3
877.202.0987



Product Usage Guidelines Directives d'utilisation du Produit

WHAT IS VAMP™?

A bio-revitalizing sterile solution enriched with a powerful blend of vitamins, amino acids, minerals and PDRN for skin rejuvenation and revitalization. VAMP™ helps to improve skin tonicity, tighten pores, reduce the appearance of wrinkles and improve skin hydration and texture.

DIRECTION FOR USE

Use only on clean skin by applying it directly to the surface of the skin or by using a device designed for that purpose. The product is meant to be used on the outer layer of the skin (epidermis) to work effectively. Do not inject this product into the body. This product should only be used by trained professionals. The recommended protocol is to apply 1 box (2 syringes) of product each time, 3 times in total with 30 days between each application.

INGREDIENTS

Water, Sodium Chloride (NaCl), Sodium Hyaluronan, Sodium Phosphate Dibasic (Na₂HPO₄), Sodium DNA, Dextrose, Potassium Chloride (KCl), Potassium Phosphate Monobasic (KH₂PO₄), Magnesium Sulfate (MgSO₄), Calcium Chloride (CaCl₂), L-Glutamine, Ascorbyl Glucoside, L-Arginine free base, L-Alanine, Sodium Acetate, L-Proline, L-Lysine hydrochloride, L-Isoleucine, L-Leucine, Glycine, L-Threonine, L-Valine, L-Tryptophan, Taurine, L-Tyrosine, L-Cystine, L-Phenylalanine, L-Glutathione, Vitamin B12, Ornithine, L-Asparagine-H₂O, L-Histidine free base, L-Glutamic Acid, L-Methionine, L-Serine, L-Aspartic acid, i-Inositol, Hydroxyl-L-proline, Niacinamide, Pyridoxine hydrochloride, Thiamine hydrochloride, Folic Acid, D-Calcium pantothenate (B5), D-Biotin, Riboflavin.

STORAGE

Store at room temperatures away from direct sunlight.

CAUTIONS

1. Topical use only.
2. Sterile solution for single use only.
3. Not for use on cuts, burns, wounds, or other compromised skin.
4. Should irritation occur, rinse off, cease use, and consult a physician.

MANUFACTURER

Prolenium Medical Technologies, Inc.
29 East Wilmot Street, Richmond Hill, ON
L4B 1A3, Canada

Report any adverse event to, Tel: +1-866-353-3017