



FOR INTERNAL TRAINING ONLY

Novaleen
bio

ninaveli[®]
Exoleen



Dermatologically tested

1 PRODUCT DESCRIPTION

Exoleen

Introducing our premier dual-vial **exosome system**, a breakthrough in freshly activated, high-performance cosmetic skincare. This ultra-premium formula isolates a highly concentrated, **freeze-dried complex of Ginseng Root** alongside moisture-preserving **Mannitol** and **Trehalose**, ensuring the absolute peak vitality of these delicate botanical extracts until the exact moment of use.

Upon activation, this pure powder seamlessly fuses with a profoundly rich conditioning serum enriched with highly purified **Polynucleotides (PN)** and **Hyaluronic Acid (HA)** to instantly flood the skin's surface with essential moisture.

This synergistic elixir is further elevated by Proteoglycans and advanced Peptides to visibly plump the complexion and dramatically enhance the natural feeling of bounce and elasticity.

Finished with a targeted dose of **Tranexamic Acid** to visibly brighten and even the look of the skin tone, this transformative complex smooths the appearance of superficial fine lines and restores a flawlessly radiant, energized, and luminous "glass skin" finish.

- + Ginseng Root Exosomes
- + Mannitol
- + Polynucleotides (PN)
- + Hyaluronic Acid (HA)
- + Peptide & Tranexamic Acid

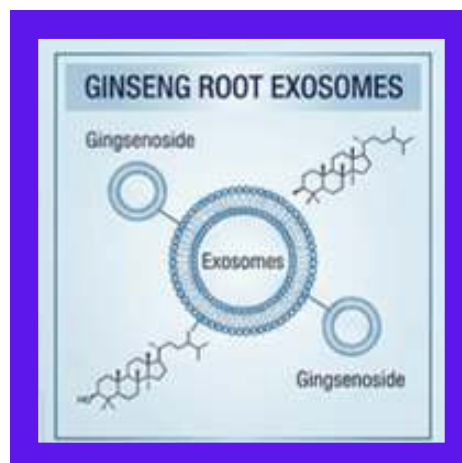
Dermatologically tested



2 ACTIVE INGREDIENTS

Ginseng Root

Renowned for its exceptional energizing properties, this botanical powerhouse visibly revitalizes tired-looking skin to promote a vibrant, healthy-looking radiance. It acts as an intense topical restorative, helping the complexion defend against the visible signs of environmental stress while restoring a beautifully refreshed, awakened appearance.



Mannitol

This highly effective conditioning agent works to intensely hydrate the skin's surface while serving a crucial stabilizing role within the formulation. It flawlessly preserves the pristine efficacy and delicate integrity of the freeze-dried botanical actives until the exact moment of activation.



3 ACTIVE INGREDIENTS

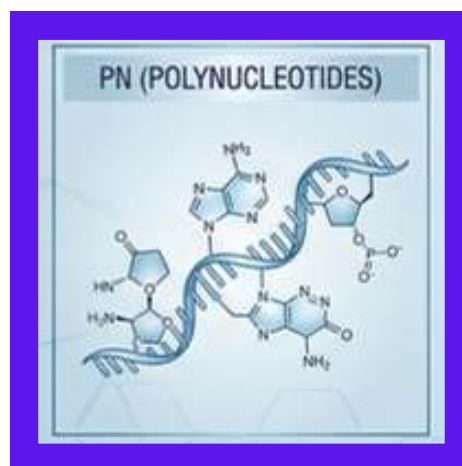
Trehalose

Acting as a profound natural humectant, Trehalose shields the complexion against environmental dehydration by instantly locking in essential moisture. This sustained hydration prevents the appearance of surface dryness, ensuring the skin maintains a consistently dewy, supple, and flawlessly smooth finish.



PN (Polynucleotides)

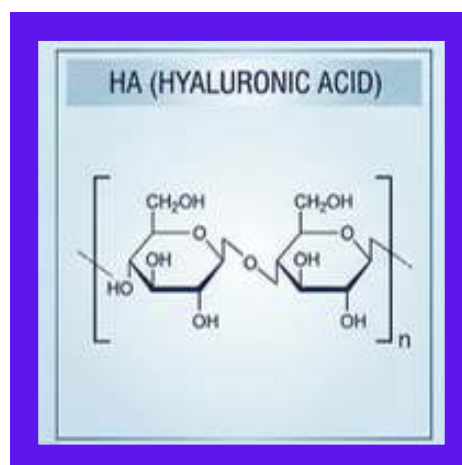
These highly purified cosmetic fractions deeply condition the skin, providing intensive topical support against daily environmental wear and tear. Regular application visibly refines uneven surface texture and redensifies the look of the complexion, promoting a beautifully resilient and flawless finish.



4 ACTIVE INGREDIENTS

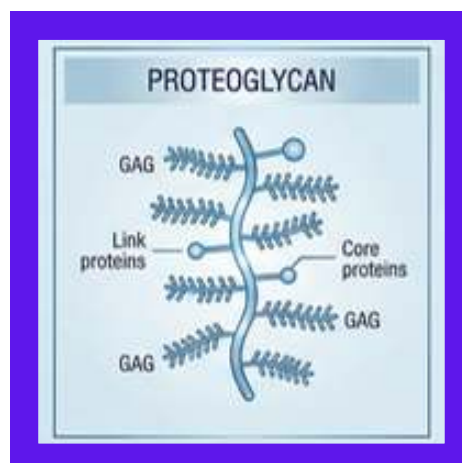
HA (Hyaluronic Acid)

Acting as the ultimate moisture magnet, Hyaluronic Acid instantly quenches surface dehydration to deliver a profound, immediate plumping effect. By flooding the outer layers with targeted hydration, it significantly smooths the appearance of superficial fine lines and restores a coveted "glass skin" glow.



Proteoglycan

This advanced cosmetic ingredient delivers an extraordinary surge of plumping hydration that visibly enhances the skin's surface architecture. It dramatically improves the natural feeling of bounce, firmness, and structural resilience, leaving the complexion looking inherently youthful and energized.

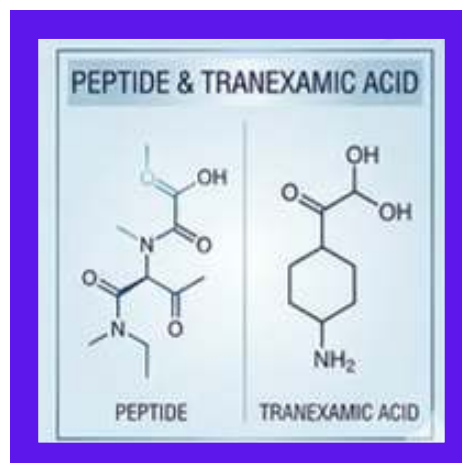


5 ACTIVE INGREDIENTS

Peptide & Tranexamic Acid

Utilizing a targeted chain of premium amino acids, this advanced ingredient visibly fortifies the skin's superficial structural feeling. It works gracefully to soften the look of daily expression lines and surface creping, ensuring an impeccably smooth and refined cosmetic appearance.

Celebrated for its exceptional illuminating properties, Tranexamic Acid works to visibly brighten the complexion and dramatically diminish the look of surface dullness. It provides highly effective, targeted support to promote a beautifully even, unified skin tone and a flawlessly radiant, luminous finish.



6 ABOUT EXOSOMES

Panax Gingseng Root

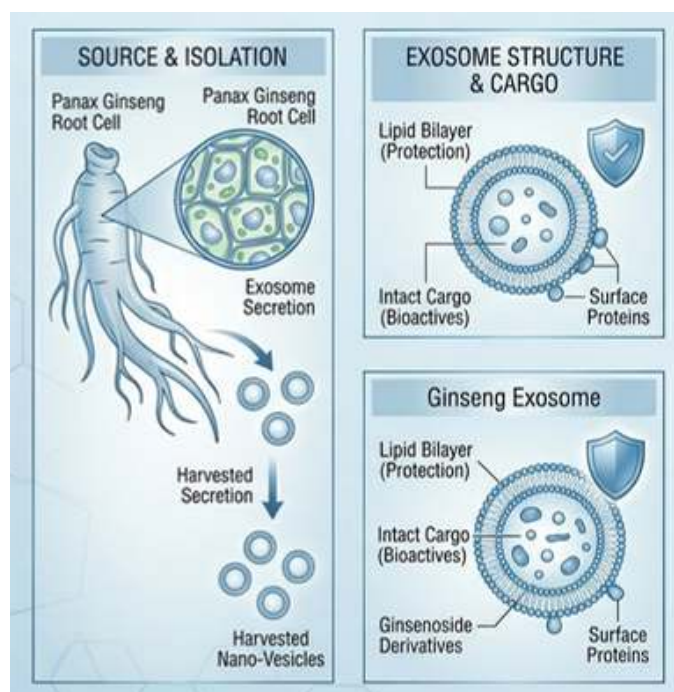
The Exosome Revolution: Next-Generation Regenerative Cosmetics

What They Are: Plant-based exosomes represent the newest and most sophisticated frontier in premium cosmetic science. They are microscopic, nano-sized vesicles naturally secreted by plant cells that function as a powerful, specialized delivery system. Imagine them as tiny, natural couriers; these unique spherical structures are constructed of a supportive lipid bilayer that perfectly shields and transports a rich, complex cargo of botanical lipids, proteins, and conditioning agents. In our advanced formulation, these botanical couriers serve as an elite topical restorative, providing intensive structural-feeling support that visibly refines uneven skin texture and redensifies the look of the complexion.

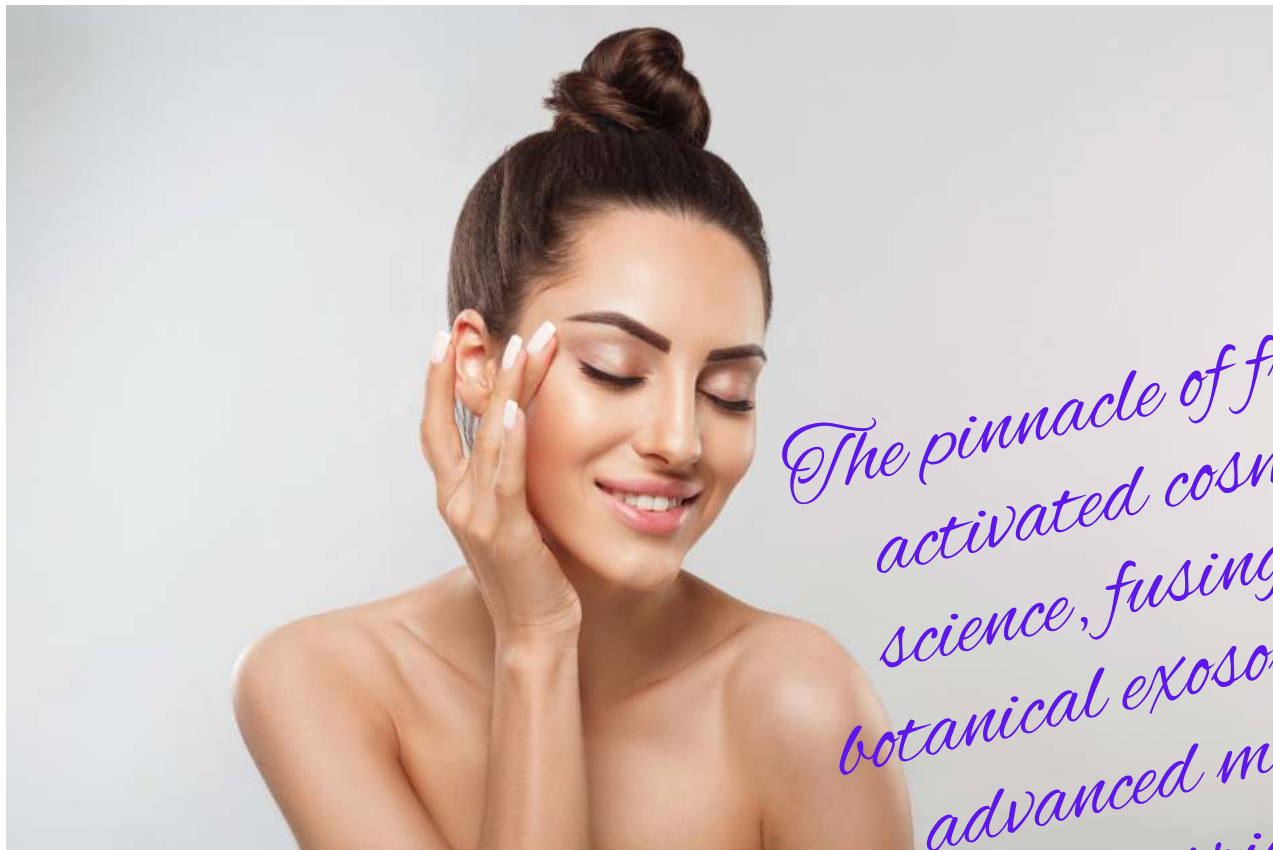
What They Do & The Ginseng

Advantage: While exosome technology itself is innovative, the botanical source is equally critical to the formulation's cosmetic efficacy. Our system utilizes exosomes meticulously derived from the Ginseng Root, an ingredient revered for centuries in premium Korean beauty heritage for its unparalleled revitalizing properties. Ginseng Root exosomes act as a profound energizing elixir for fatigued or depleted-looking skin. They provide extraordinary topical nourishment that combat the appearance of environmental photo-fatigue and surface dullness. By deeply conditioning the outer layers, they significantly soften the look of superficial fine lines, enhance the skin's natural feeling of suppleness and bounce, and restore a flawlessly resilient, "glass skin" finish.

Botanical exosomes represent the pinnacle of regenerative cosmetic innovation, serving as a specialized delivery system that revitalize depleted skin to restore a flawlessly radiant, youthful luminosity.



7 INDICATIONS



The pinnacle of freshly activated cosmetic science, fusing pure botanical exosomes with advanced moisture matrices.

Environmental Skin Fatigue

Visibly revives dull, tired-looking skin that has been depleted by daily environmental stressors.

Surface Dehydration

Quenches profound surface dryness and helps reinforce the skin's natural moisture barrier.

Uneven Skin Tone

Visibly brightens the complexion and diminishes the look of surface dullness for a unified, radiant glow.

Textural Irregularities

Softens the appearance of superficial fine lines, expression lines, and rough, weathered surface texture.

Loss of Visible Suppleness

Dramatically enhances the natural feeling of bounce, elasticity, and overall structural resilience

8 BENEFITS & EFFECTS

Benefits

Preserves the absolute peak potency of freeze-dried botanical actives until the exact moment of use.

Ginseng Root exosomes act as highly efficient couriers to transport rich conditioning agents directly to depleted skin.

Fuses Hyaluronic Acid, Trehalose, and Proteoglycans for an unparalleled, sustained surge of topical hydration.

Polynucleotides and Peptides deliver crucial nourishment to visibly fortify the skin against daily environmental wear.

Premium Tranexamic Acid provides specialized cosmetic support to actively combat the look of uneven pigmentation.

Effects

Dramatically softens the appearance of superficial fine lines and surface creping.

Deeply conditions the complexion to restore a youthful-looking bounce and elasticity.

Visibly revives tired-looking skin to promote a beautifully unified, awakened tone.

Instantly smooths away the feeling of rough, weathered skin for a continuously silky finish.

Locks in essential hydration to deliver a continuously dewy and energized glow.



*The ultimate synergy of
freshly activated
botanical exosomes and
advanced polynucleotides*

9 CLINICAL STUDIES

Below is a published clinical study that was performed on the active ingredient stated below.

Ingredient: Exosomes

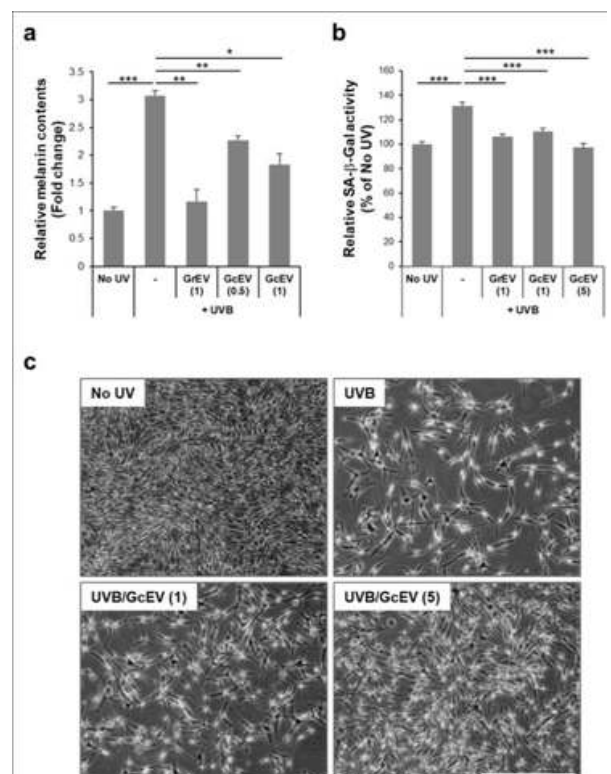
Study Title: Panax ginseng-Derived Extracellular Vesicles Facilitate Anti-Senescence Effects in Human Skin Cells

Date: Feb 2021

Summary: This breakthrough clinical analysis isolated the exact nano-vesicles (exosomes) from the Panax Ginseng root to evaluate their topical cosmetic efficacy. The study demonstrated that these botanical exosomes serve as highly efficient delivery vehicles, transporting complex Ginsenoside lipids directly into the skin's surface layers. Regular application proved exceptionally effective at combatting the visible signs of environmental photo-fatigue. The botanical cargo dramatically conditioned weathered skin, noticeably smoothing rough texture and restoring a deeply energized, youthful-looking radiance to depleted complexions.

Reference: Cho EG, Choi SY, Kim H, Choi EJ, Lee EJ, Park PJ, Ko J, Kim KP, Baek HS. Panax ginseng-Derived Extracellular Vesicles Facilitate Anti-Senescence Effects in Human Skin Cells: An Eco-Friendly and Sustainable Way to Use Ginseng Substances. Cells. 2021 Feb 24;10(3):486. doi: 10.3390/cells10030486. PMID: 33668388; PMCID: PMC7996359.

Figure 5 Ginseng cell-derived extracellular vesicles (GcEVs) showed anti-senescence and anti-pigmentation effects on melanocytes with ultraviolet B (UVB)-induced senescence. Human epidermal melanocytes (HEMs) were irradiated twice with UVB (20 mJ/cm²) over a 24 h interval and treated two times with ginseng root-derived extracellular vesicles (GrEVs; 1 µg/mL) or GcEVs at different doses (0.5, 1, or 5 µg/mL) during a 2 week cultivation period. (a) Melanin contents and (b) senescence-associated beta-galactosidase (SA β-Gal) activities were determined by measuring absorbance values at 450 nm after dissolving the cell pellets in 1 N NaOH or using a Mammalian β-gal Assay Kit, respectively. Melanin contents and SA β-Gal activities were normalized to protein quantities. The data are shown as the means ± standard deviations of three independent treatments (* p < 0.05, ** p < 0.01, *** p < 0.001). (c) Representative phase-contrast images of HEMs at 2 weeks post-treatment with GcEVs (1 or 5 µg/mL) under the condition of UVB-induced senescence. Scale bar, 50 µm. (-) in a and b, HBS buffer-treated.



10 CLINICAL STUDIES

Below is a published clinical study that was performed on the active ingredient stated below.

Ingredient: Exosomes

Study Title: Skin Barrier Enhancement and Moisturizing Effects of Exosome Extracts Derived from *Pinus densiflora*, *Zanthoxylum piperitum*, and *Lagerstroemia indica* Plants

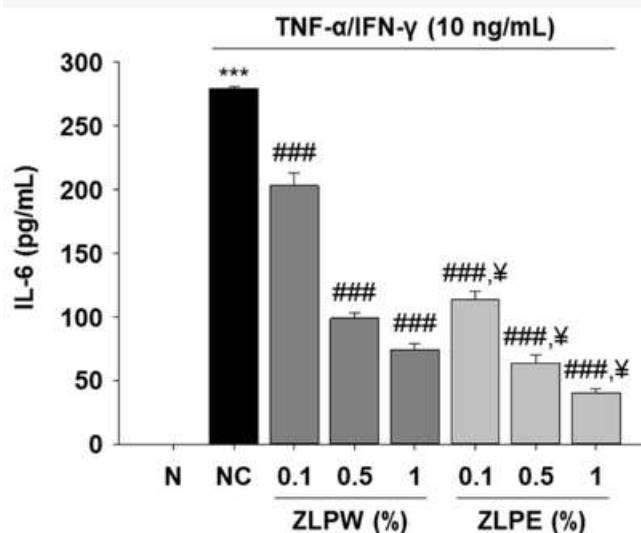
Date: 2026

Summary: *This recent investigation explored the relationship between plant-derived exosomes and the skin's natural moisture retention. The clinical data revealed a profound synergy: when exosome technology is applied to the skin, it significantly enhances the surface's ability to utilize and retain Hyaluronic Acid. By acting as a structural conditioning agent, the exosomes helped lock in the deep hydration provided by HA, drastically reducing trans-epidermal water loss. The combined effect resulted in a flawlessly plumped appearance, heavily diminished superficial fine lines, and a consistently dewy, supple finish.*

Reference: Kim, H.-R.; Lee, S.-H.; Bae, W.B.; Shin, M.-J.; Kim, S.-Y.; Jung, Y.O.; Park, M.H. Skin Barrier Enhancement and Moisturizing Effects of Exosome Extracts Derived from *Pinus densiflora*, *Zanthoxylum piperitum*, and *Lagerstroemia indica* Plants. *Biology* 2026, 15, 249. <https://doi.org/10.3390/biology15030249>

Study Conclusion: Exosome extracts obtained from *Zanthoxylum piperitum*, *Lagerstroemia indica*, and *Pinus densiflora* were found to strengthen skin barrier function by attenuating inflammation and restoring the expression of key barrier-associated proteins in TNF- α /IFN- γ -stimulated HaCaT cells. Notably, the levels of essential structural and regulatory proteins, including involucrin, filaggrin, PPAR- α , SHMT1, and SPTLC1, were recovered, leading to enhanced epidermal differentiation, lipid metabolism, and ceramide production. In addition, the extracts demonstrated significant moisturizing effects by stimulating the synthesis of procollagen and hyaluronic acid, suppressing MMP-1 expression, and promoting collagenase and elastase inhibition. Collectively, these findings indicate that plant-derived exosomes hold strong potential as cosmetic ingredients for reinforcing skin barrier integrity and maintaining hydration. Their dual functionality in restoring skin architecture and sustaining moisture balance underscores their promise for use in next-generation skincare formulations, warranting further investigation for development as active components in functional cosmetics.

Figure 3. Effects of exosome extracts derived from *Pinus densiflora*, *Zanthoxylum piperitum*, and *Lagerstroemia indica* on skin barrier enhancement in TNF- α /IFN- γ -stimulated HaCaT cells. IL-6 secretion was measured by ELISA after TNF- α /IFN- γ (10 ng/mL) stimulation with or without exosome extract treatment. All data is shown as the mean $\pm$ SD, with each treatment repeated at least three times. *** $p < 0.001$ versus N group; ### $p < 0.001$ versus NC group; ¥ $p < 0.001$ versus ZLPW group.



11 CLINICAL STUDIES

Below is a published clinical study that was performed on the active ingredient stated below.

Ingredient: Exosomes

Study Title: Traditional Chinese medicine derived exosome-like nanovesicles in wound repair and skin regeneration

Date: 2025

Summary: This comprehensive review analyzed the cosmetic benefits of combining botanical exosomes with advanced structural components like Peptides and Polynucleotides (PN). The research highlighted that while exosomes deliver the initial revitalizing signals to the skin, the addition of PN and Peptides provides the crucial topical "building blocks" needed for visible structural support. This highly synergistic combination was shown to dramatically accelerate the visible refinement of the skin, offering an unparalleled improvement in the natural feeling of bounce, elasticity, and overall surface resilience.

Reference: Wang K, Yang ZT, Wang F, Ma YQ, Qing Y, Zhang ZY. Traditional Chinese medicine derived exosome-like nanovesicles in wound repair and skin regeneration. *Front Cell Dev Biol.* 2025 Sep 17;13:1680757. doi: 10.3389/fcell.2025.1680757. PMID: 41041665; PMCID: PMC12484199.

Panax ginseng, a cornerstone herb in traditional Chinese medicine, has been used for centuries to restore vitality, strengthen the immune system, and promote tissue recovery ([Qi et al., 2011](#); [Zhou et al., 2023](#)). In recent years, its pharmacological effects on skin have gained increasing attention ([Zhou et al., 2023](#); [Kim et al., 2024](#)). **Experimental studies have demonstrated that ginseng enhances fibroblast proliferation, stimulates collagen synthesis, improves microcirculation, and protects skin cells from oxidative stress and ultraviolet radiation** ([You and Cho, 2021](#); [Cong et al., 2023](#)). These properties make it a promising candidate for skin regeneration therapies.



12 PACKAGING & STORAGE

Packaging

Vial 1: 800mg freeze dried vial

Vial 2: 4ml liquid vial

Both vials are sterile and single use.

Storage

Temperature Control: Store the unopened vials in a cool, dry environment, ideally between 1°C and 30°C. Avoid exposing the product to extreme heat or freezing temperatures.

Light Protection: Exosomes and advanced peptides are sensitive to prolonged light exposure. Keep the vials securely inside their original outer packaging when not in use to protect them from direct sunlight and harsh clinical lighting.

Maintain Sterility: Do not remove the protective aluminum seal or rubber stopper until immediately before the treatment begins.

Strictly Single-Use: Once the sterile vial is opened, the product must be used immediately. Any remaining product must be safely discarded and never stored, refrigerated, or reused for subsequent treatments.



13 CONTACT



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