



CELUVIN

Redefining Anti-Aging with Science



CELUVIN®

Global Release



CELUVIN® H1 Special Dietary Tablet

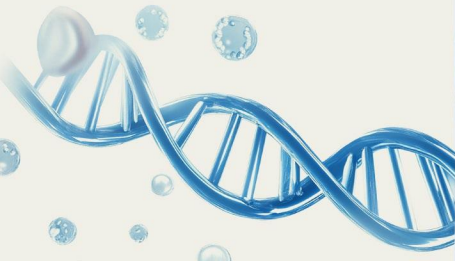
Hematopoietic Stem Cell
Anti-Aging Supplement

CELUVIN[®] MISSION

Redefining Anti-Aging with Science

We are dedicated to revitalizing life through high-quality anti-aging supplements based on scientific research. The CELUVIN team comprises leading scientists, researchers, and industry experts in the fields of anti-aging, biology, and health. We believe that everyone deserves a healthy and youthful lifestyle. By harnessing the power of science, we strive to make youth a lasting norm, helping people transcend the limitations of age and unlock greater possibilities.

Through scientific testing and intervention, we honor the complexity of the human body's physiological mechanisms and respect the natural laws of life. We believe that anti-aging is not merely about the efficacy of a single product but a complex biological process that requires a series of precise interventions and long-term scientific approaches. Partnering with the world's most authoritative experts, CELUVIN develops world-class products and leverages multidimensional strategies to advance the future of anti-aging, paving the way for a new era in health management.





What is CELUVIN®?

Rejuvenates Hematopoietic Stem Cells

Hematopoietic stem cells (HSCs) are the foundation of the blood system, essential for immunity, tissue repair, and metabolic balance. Like the body's 'roots,' they sustain overall vitality. With age, HSCs face oxidative stress, inflammation, and metabolic disruption, leading to weaker immunity, slower recovery, and chronic inflammation. As a key driver of aging-related decline, restoring HSC function is now seen as one of the most comprehensive and forward-looking anti-aging strategies.

CELUVIN was developed with top hematopoietic stem cell researchers worldwide. Its formula targets key aging pathways—improving the cellular environment, supporting autophagy, boosting mitochondrial function, and reducing inflammation. Made in Hong Kong with international certifications and backed by clinical testing, CELUVIN offers a science-based anti-aging experience that is both effective and measurable.



The Future of Anti-Aging

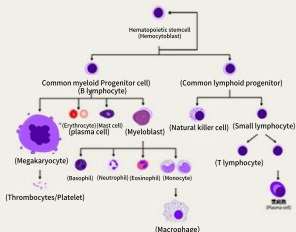
Begins with Hematopoietic Stem Cells

Building the Circulatory Network

Hematopoietic stem cells (HSCs) are the sole source of all blood cells, continuously producing red blood cells, platelets, and white blood cells to build the circulatory network that sustains every organ. Red blood cells deliver oxygen for cellular energy, while the body's own antioxidant defense system works to neutralize free radicals, maintaining the body's antioxidant balance and keeping organs youthful.

Reconstituting Systemic Immunity

▼ Hematopoietic Lineage Differentiation Chart



Hematopoietic stem cells govern the production of all immune cells, directly determining the body's immune potential. As HSCs age, myeloid bias triggers chronic inflammation, driving diseases from cardiovascular conditions to neurodegeneration. Notably, today's most advanced and costly immunotherapies—NK cell therapy and CAR-T—are derived entirely from one's own hematopoietic stem cells.



Professor Zhenyu Ju and Team

HEMATOPOIETIC STEM CELLS AND THEIR NICHES
IN HOMEOSTASIS AND AGING

The CELUVIN research team includes experts from Harvard University and McGill University. The product's core formulation is derived from the research of Professor Zhenyu Ju at the Institute of Aging and Regenerative Medicine, Jinan University, and integrates years of scientific advancements in stem cell health and immune optimization.

Professor Ju is a leading authority in aging biology, stem cell science, and regenerative medicine. His team has long focused on systemic interventions for middle-aged, elderly, and sub-healthy populations, aiming to translate scientific discoveries into practical anti-aging applications.

CELUVIN bridges cutting-edge research with real-world needs, delivering a next-generation supplement solution tailored for long-term health management and evidence-based rejuvenation.



HARVARD
UNIVERSITY



McGill
UNIVERSITY



Expert Honors

Zhenyu Ju - Research Professor and Doctoral Supervisor

Academic Background

Chair, Department of Developmental and Regenerative Biology, Jinan University.

Director, Institute of Aging and Regenerative Medicine, Jinan University.

Director, Key Laboratory of Regenerative Medicine, Jinan University – The Chinese University of Hong Kong.

Recipient of the National Science Fund for Distinguished Young Scholars (2015).

Professional Affiliations

Deputy Director, Committee on Aging and Health, Chinese Association for Physiological Sciences

Vice President, Traditional Chinese Medicine Branch, Chinese Association for Information Science

Executive Member, Committee on Technological Innovation in Elderly Health, Chinese Research Hospital Association

Executive Member, Committee on Bioactive Small Molecules, Chinese Society of Pathophysiology

Executive Member, Committee on Basic Research in Aging, Geriatrics Branch, Chinese Geriatrics and Gerontology

Society



Research Focus and Achievements

● H-INDEX: 58 | i10-INDEX: 124

● Aging of Adult Stem Cells and Organ Regeneration

Molecular Mechanisms of Organ Aging and Intervention Targets

Animal Models for Delaying Aging and Extending Lifespan

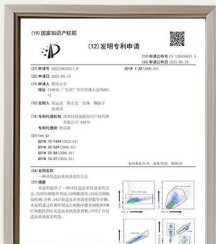
● Total of 133 SCI Papers Published

Research focuses on the molecular mechanisms of stem cell aging and its impact on tissue function and organismal longevity. Major findings have been published in top-tier journals such as Cell, Nature Genetics, Nature Medicine, Cell Stem Cell, Cell Research, and Blood. A total of 133 SCI-indexed papers have been published, with over 8,000 citations to date.

● Awarded Multiple National Key or Major Projects

Includes three Key Projects funded by the National Natural Science Foundation of China (NSFC), one Key Project and one Integrated Project under the NSFC Major Research Plan, one Key International Cooperation Project, and three projects under the National Key R&D Program, among others.

R&D Team and Related Patents

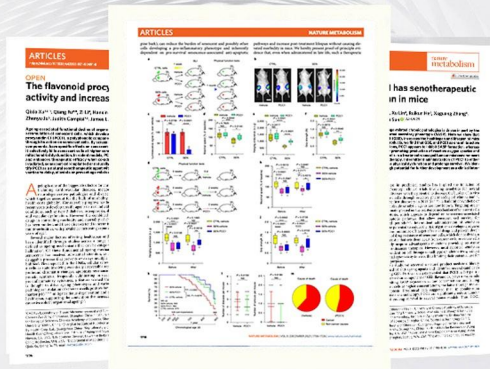


R&D Team and Related Papers



A study published by the research team in *Nature Metabolism* demonstrated the significant anti-aging effects of Procyanidin C1 (PCC1). The findings showed that PCC1, at concentrations of 0.75 µg/ml and 3.75 µg/ml, effectively reduced the number of senescent cells by approximately 20%–30%. Additionally, PCC1 promoted apoptosis of senescent cells by increasing mitochondrial reactive oxygen species (ROS) levels by about 40%.

In mouse models, PCC1 extended overall lifespan by 10%–20% and, when used in combination with chemotherapy agents, reduced tumor volume by 50%–60%. Furthermore, PCC1 was found to lower the expression of the senescence-associated factor CXCL8 by 30%–40%, providing further evidence of its potential in promoting longevity and combating age-related cellular decline.



R&D Team and Related Papers



The professor team published a study in Cell Research revealing that YTHDF2 regulates HSC self-renewal by clearing m6A-modified mRNA. In YTHDF2-deficient mice, HSC numbers increased by ~30%, and recovery after bone marrow injury was ~40% faster.

Building on this insight, CELUVIN applies natural compounds to improve the stem cell microenvironment, enhance mRNA stability, and support HSC regeneration—delivering root-level anti-aging benefits.

A study published by the professor team in Protein & Cell revealed that p21 and Zbtb18 regulate HSC self-renewal by suppressing cKit expression. Deletion of these factors increased HSC numbers by ~40% and accelerated proliferation by ~50% after injury—but led to impaired self-renewal due to overexpansion.

Based on this, CELUVIN leverages natural compounds to modulate cKit expression, restore stem cell balance, and enhance regeneration—delivering root-level anti-aging effects.

Cell Research

LETTER TO THE EDITOR

Loss of YTHDF2-mediated m⁶A-dependent mRNA clearance facilitates hematopoietic stem cell regeneration

Cell Research (2018) 18(10)1008–1016
<https://doi.org/10.1016/j.celres.2018.09.019>

Dear Editor,

Hematopoietic stem cells (HSCs) have unique self-renewal capacity to generate the entire blood system, which is essential for various tissue functions, such as in wound repair, infection response, and immune regulation. Hematopoietic stem cells (HSCs) are characterized by their self-renewal capacity, which is regulated by a complex network of transcription factors, including c-Myb, c-Kit, and others. The self-renewal of HSCs is a tightly regulated process, and any disruption can lead to hematopoietic disorders. The loss of YTHDF2, a protein involved in mRNA metabolism, has been shown to affect HSC self-renewal. In this study, we investigated the role of YTHDF2 in HSC self-renewal and its impact on hematopoietic stem cell regeneration.

We found that the loss of YTHDF2 in HSCs led to increased self-renewal and enhanced hematopoietic stem cell regeneration. This was associated with increased mRNA stability and reduced mRNA clearance. The loss of YTHDF2 also led to increased proliferation and differentiation of HSCs. These findings suggest that YTHDF2 plays a critical role in maintaining HSC self-renewal and hematopoietic stem cell regeneration. Our results provide new insights into the mechanisms of HSC self-renewal and its regulation by YTHDF2.

We thank the reviewers for their constructive comments and suggestions.

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www.cell-research.com
www.cell-research.com



Protein & Cell

RESEARCH ARTICLE

p21/Zbtb18 repress the expression of cKit to regulate the self-renewal of hematopoietic stem cells

Protein & Cell (2018) 9(1)100–110
<https://doi.org/10.1016/j.pro.2018.01.001>

The self-renewal of hematopoietic stem cells (HSCs) is a complex process involving numerous cell-intrinsic and -extrinsic regulators. The first member of the cyclin-dependent kinase family of proteins to be identified, p21, has been reported to perform a wide range of critical biological functions, including cell cycle regulation, transcription, differentiation, and so on. Given the previous experimental results regarding the functions of p21 in HSCs in a p21 knockout mouse model, we employed p21-deficient HSCs to further elucidate its role in HSCs during hematopoiesis. The results showed that p21-deficient HSCs exhibited increased self-renewal capacity compared to p21-sufficient HSCs. Zbtb18, a transcriptional repressor, was co-expressed with p21 in HSCs, and its knockdown significantly impaired the self-renewal capacity of HSCs. Furthermore, p21-deficient HSCs showed increased proliferation and differentiation capacity. These findings suggest that p21 and Zbtb18 play a critical role in regulating HSC self-renewal and differentiation.

We thank the reviewers for their constructive comments and suggestions.

Abstract

The maintenance of hematopoietic stem cells (HSCs) is a complex process involving numerous cell-intrinsic and -extrinsic regulators. The first member of the cyclin-dependent kinase family of proteins to be identified, p21, has been reported to perform a wide range of critical biological functions, including cell cycle regulation, transcription, differentiation, and so on. Given the previous experimental results regarding the functions of p21 in HSCs in a p21 knockout mouse model, we employed p21-deficient HSCs to further elucidate its role in HSCs during hematopoiesis. The results showed that p21-deficient HSCs exhibited increased self-renewal capacity compared to p21-sufficient HSCs. Zbtb18, a transcriptional repressor, was co-expressed with p21 in HSCs, and its knockdown significantly impaired the self-renewal capacity of HSCs. Furthermore, p21-deficient HSCs showed increased proliferation and differentiation capacity. These findings suggest that p21 and Zbtb18 play a critical role in regulating HSC self-renewal and differentiation.

We thank the reviewers for their constructive comments and suggestions.

Keywords: hematopoietic stem cells, self-renewal, p21, Zbtb18, cKit

Introduction

Hematopoietic stem cells (HSCs) are resident bone marrow cells that are responsible for maintaining the hematopoietic system throughout life (Sung et al., 2010). A mounting number of studies have shown that the maintenance of HSCs is an intricately regulated process involving numerous cell-intrinsic and -extrinsic regulators (Sung et al., 2010; He and Li, 2014; Morrison and

Schwartz, 2014; Nakamura-Miyake et al., 2014; Ransjö et al., 2014; Park and Morrison, 2014; Sagar et al., 2014; Sun et al., 2014; Sun et al., 2014; Sun et al., 2014). It is essential to understand the fundamental biological processes that govern the development of HSCs to improve the treatment of HSC-related diseases. p21, encoded by the *Cdkn1a* gene, is a cyclin-dependent kinase inhibitor that plays a critical role in regulating the cell cycle and has been shown to be involved in HSC self-renewal and differentiation (Sung et al., 2010; He and Li, 2014; Morrison and Schwartz, 2014; Nakamura-Miyake et al., 2014; Ransjö et al., 2014; Park and Morrison, 2014; Sagar et al., 2014; Sun et al., 2014; Sun et al., 2014; Sun et al., 2014).

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 The authors declare that they have no conflict of interest in this work.
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Technical Partner



Kris Cai

Bachelor's Degree, School of Life Sciences,
Fudan University

(Ranked #3 nationally in biological sciences in China)

Visiting Scholar, Harvard Medical School

(Globally Ranked #1, a Globally Leading Medical School)

Ph.D., MD Anderson Cancer Center,
University of Texas

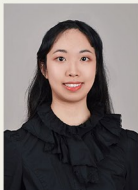
(Globally Ranked #1 in the Discipline, the World's Top Cancer Institute)

Previously conducted research at the Aging Research Laboratory of Harvard Medical School under the supervision of internationally renowned aging biologist Professor David Sinclair, widely recognized as the “father of NMN.” Focused on elucidating the molecular mechanisms by which anti-aging compounds modulate chronic inflammation and age-related diseases.

Ph.D., The University of Texas MD Anderson Cancer Center, with research centered on the epigenetic regulation of mesenchymal stem cell differentiation and its role in the initiation and progression of soft tissue sarcomas. Specifically investigates how mutations in histone chaperone proteins induce epigenetic dysregulation, contributing to tumor stemness, dedifferentiation, and immune microenvironment remodeling. The research further integrates clinical pharmacology approaches to identify precision therapeutic strategies targeting specific sarcoma subtypes.

In 2024, served as a research scientist at Takeda Biopharmaceuticals, participating in the development of clinical oncology therapies. Gained extensive experience in translational research, drug development pipelines, and experimental platform establishment.

Technical Adviser



Aileen Li

Bachelor of Science, Department of Biochemistry,
University of Washington

(Globally Ranked #14, One of the World's Top Chemistry Departments)

Master's Degree, Harvard Medical School

(Globally Ranked #1, a Globally Leading Medical School)

Ph.D. Candidate, MD Anderson Cancer Center,
University of Texas

(Globally Ranked #1 in the Discipline, the World's Top Cancer Institute)

Research direction: focusing on the role of Gasdermin-mediated pyroptosis in cancer immunotherapy, exploring its functional mechanisms within the tumor microenvironment and its regulation of immune responses. The research investigates how pyroptosis activates the immune system to suppress cancer progression, modulates the activity of T cells and effector immune cells in the tumor microenvironment, and integrates with immune checkpoint inhibitors to optimize therapeutic outcomes.

Core Efficacy

I

Reverse HSC Aging

Activate the regenerative potential of hematopoietic stem cells.

II

Antioxidation Protection

Regulate the inflammatory reaction

III

Cellular Repair

Restore cellular youthfulness.



IV

Boosting Immunity

Optimize immune system response.

V

Supplement NAD⁺

Support mitochondrial function and extend telomeres.

VI

Delay Senescence

Improve sleep, and help combat aging and reverse aging signs.

Mechanism of Action

Core Mechanism:

Activate Hematopoietic Stem Cells to Unlock Vitality

CELUVIN uses precisely formulated, science-backed ingredients to act at the cellular level—activating hematopoietic stem cells, restoring internal balance, and slowing the aging process.

Aging begins with the decline of cellular and tissue function, weakening immunity and repair. By improving the cell microenvironment with targeted nutrients, stem cells are reactivated, vitality restored, and age-related degeneration effectively delayed.



Activate Hematopoietic Stem Cells Restore Immune and Repair Functions

CELUVIN works by modulating the stem cell microenvironment, clearing oxidative stress and inflammatory factors, and restoring the self-repair capacity of stem cells. It effectively neutralizes free radicals, slows stem cell aging, activates the immune system, and enhances the body's disease resistance.



Improve Hematopoietic Stem Cell Aging Regulate Myeloid–Lymphoid Differentiation Balance

As the body ages, the differentiation balance of hematopoietic stem cells shifts toward the myeloid lineage, weakening immune function and slowing tissue repair. CELUVIN addresses this imbalance through a targeted scientific formulation that improves stem cell aging, restores lymphoid–myeloid differentiation, and enhances overall immune and regenerative capacity—supporting healthy aging at the source.



Enhance Energy Metabolism Activate Cellular Vitality

NAD⁺ plays a vital role in cellular energy metabolism. CELUVIN helps increase NAD⁺ levels, enhance mitochondrial function, and provide the energy needed for cellular regeneration. By supplementing NAD⁺, it restores cellular vitality, promotes repair and renewal, and helps slow the aging process.

Mechanism of Action



Anti-Glycation Protection Maintain Cellular Health

Glycation is a key driver of aging, and advanced glycation end-products (AGEs) can impair normal cell differentiation. CELUVIN effectively inhibits glycation, protects cells from glycation-induced damage, and helps preserve cellular youthfulness—contributing to a slower aging process.



Enhance Mitochondrial Function Fuel Cellular Energy

By activating the PGC-1 α signaling pathway, CELUVIN promotes mitochondrial biogenesis and improves mitochondrial performance. This provides essential energy for stem cells and other cells, supporting proliferation, repair, and the body's innate regenerative capacity.



Scientifically Validated Quantifiable Results

CELUVIN's effectiveness is validated through rigorous scientific assessment, focusing on two key indicators of hematopoietic stem cell function: the myeloid-to-lymphoid ratio (MLR) and intracellular NAD⁺ levels. MLR is widely recognized as a functional marker of HSC aging. By tracking these biomarkers, CELUVIN provides clear, measurable evidence of its impact on reversing age-related decline.

Rigorous Selection & Precision Formulation



Screening Process

Over the course of more than 20 years, the professor team screened over 5,000 natural compounds. Through multiple rounds of selection, experimentation, and validation, a few hundred candidates were narrowed down to a handful of core active ingredients—chosen for their optimal biological efficacy.



Scientific Optimization

Following extraction and purification, all core ingredients underwent extensive mechanistic studies and precision ratio testing by the professor team. The result is a synergistic compound formula that comprehensively supports hematopoietic stem cell health, immune regulation, energy metabolism, and systemic anti-inflammation.



Continuous Iteration

Backed by our core Harvard team and over 20 years of hematopoietic stem cell expertise at Jinan University, we have built a dynamic R&D system.

Guided by the latest mechanistic advances and experimental data, we continuously optimize formulations and synergy for long-term efficacy.

CELUVIN® Hematopoietic Stem Cell Supplement

Product Key Ingredient

Grape Seed Extract

Primarily sourced from French grape seeds, this extract contains 95% proanthocyanidins. It delivers powerful antioxidant effects, protects cellular DNA and mitochondria, and helps slow the aging process.



Luteolin

Extracted from premium Sophora japonica fruit, luteolin provides antioxidant and anti-inflammatory effects, improves the cellular microenvironment, and enhances stem cell activity.



Gingerol

Anti-inflammatory effect: promotes blood circulation and enhances immunity, boosting anti-aging efficacy.



NMN (Nicotinamide Mononucleotide)

Boosts cellular energy, improves metabolism, and helps slow the aging process.



Ergothioneine

A potent antioxidant that protects cells from oxidative damage and supports cellular repair.



L-Carnosine

An anti-glycation compound that inhibits the formation of advanced glycation end-products (AGEs) and helps enhance cellular vitality.



PQQ (Pyrroloquinoline Quinone)

Stimulates mitochondrial biogenesis, enhances cellular energy metabolism, and boosts cellular vitality, thereby improving cell viability.



CELUVIN® H1 Special Dietary Tablet

Product Key Ingredient

Grape Seed Extract

Rich in oligomeric and monomeric proanthocyanidins (OPC), it exerts antioxidant effects and modulates the secretion of inflammatory senescence-associated secretory phenotype (SASP).



Black Goji Berry

Rich in anthocyanins, it reduces oxidative stress and maintains cellular redox homeostasis.



Golden Oyster Mushroom

Contains bioactive polysaccharides, which modulate immune function and antioxidant status.



Licorice

Contains glycyrrhethinic acid, which modulates the IL-6/STAT3 inflammatory signaling pathway.



Ziziphus Spinosa Seed Extract

Modulates the neuroendocrine stress axis and supports immune and inflammatory balance.



Lemon Balm

Rich in rosmarinic acid, it alleviates stress and reduces inflammatory responses.



Ginseng Extract

Regulates immune metabolism and mitochondrial function, enhancing cellular activity.



CELUVIN® H1 Special Dietary Tablet

Product Key Ingredient

Cultured Snow Lotus

It possesses antioxidant and anti-inflammatory activities and alleviates cellular stress injury.



Reishi Mushroom Extract

Contains triterpenes and polysaccharides, supporting immune homeostasis regulation.



Ca-AKG

Source of α -ketoglutarate, which participates in the tricarboxylic acid cycle (TCA cycle) and energy metabolism.



Nicotinamide

A biosynthetic precursor of NAD⁺, it participates in energy metabolism and DNA repair.



Nicotinic Acid

One of the forms of Vitamin B3, it supports the NAD/NADP metabolic pathway



Vitamin B1 (Thiamine)

Participates in carbohydrate metabolic enzyme systems and promotes cellular energy production.



Vitamin B2 (Riboflavin)

A precursor of FAD/FMN, it participates in redox reactions and mitochondrial metabolism.



CELUVIN® H1 Special Dietary Tablet

Luxury-grade white grape seed raw materials

Sourced from white grapes cultivated in France's Loire Valley, this variety is utilized in the production of luxury champagnes including Moët & Chandon and Dom Pérignon.



Unique Process: Ultrasonic Insect Repellent Technology and Acetone Extraction Method

Exclusive ultrasonic insect repellent technology guarantees pure raw materials. Patented low-temperature instant extraction under vacuum minimizes oxidation and heat loss, preserving OPC activity.

Pharmaceutical-grade Production Standards: Clinically Validated & GMP Manufactured

Manufactured in compliance with the GMP quality management system and scientifically evaluated based on human studies and experimental data..

> *Curr Pharm Des.* 2014;20(6):1011-9. doi: 10.2174/138161282006140220144411.

Human use of Leucoselect® Phytosome® with special reference to inflammatory-allergic pathologies in frail elderly patients

Thes Magrone, Vittorio Pugliese, Sergio Fontana, Emilio Jirillo ¹

Affiliations + expand

PMID: 23701566 DOI: 10.2174/138161282006140220144411



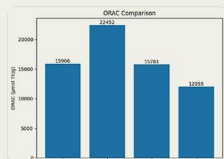
CELUVIN® H1 Special Dietary Tablet (Grape Seed) vs. Ordinary Grape Seed

ORAC Free Radical Scavenging

Activity Comparison:

(Regardless of human absorption)

**CELUVIN® H1 Special Dietary Tablet
Grape Seed vs. Regular Grape Seed**



ORAC

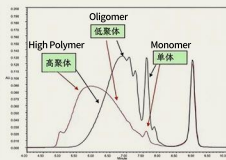
**Oxygen Radical
Absorbance Capacity**

**High density of
active antioxidant structures**

GPC Chromatogram Absorption

Rate Comparison:

**CELUVIN® H1 Special Dietary Tablet
Grape Seed vs. Regular Grape Seed**



编号	检测项目	单位	检测方法	检测结果 (000%)	定容值
5	水分	g/100 g	GB 5009.3-2016 第一法	3.56	-
6	蛋白质 (以 N 计)	mg/kg	GB 5009.74-2014	<10	-
7	总糖 (以 As 计)	mg/kg	GB 5009.15-2024 第一法 第二法	0.033	0.03
8	维生素 C	mg/kg	GB 5009.12-2023 第二法	0.005	0.05
9	维生素 E	mg/kg	GB 5009.15-2023 第二法	0.005	0.005
10	维生素 B1	mg/kg	GB 5009.15-2023 第二法	0.005	0.005
11	*儿茶素(+C)	mg/kg	GB/T 8313-2018.3	7.74	0.10
12	*表儿茶素(EC)	mg/kg	GB/T 8313-2018.3	6.29	0.10

备注:
-ND = 未检出
*检测项目由通标标准技术服务(青岛)有限公司实验室 (CMA 编号: 2115203429171, CMA 编号: L0604) 执行, 不在本实验室的 CMA/CNAS 认证认可范围内。

CELUVIN® H1 Special Dietary Tablet (Grape Seed)

Shows an order-of-magnitude advantage in overall efficacy

Dual Efficacy Validation:

User-Reported Outcomes

This product does not contain any ingredients intended only for perceived effects or sleep aid.

85.2%

Improvement in Sleep Quality

Reduction in Sleep Onset Latency: **64.5%**

Reduction in the Number of Nighttime Awakenings: **73.8%**

Feeling Mentally Refreshed After Waking Up: **64.5%**

81.5%

Improvement in Mental Resilience

Less Fatigue / More Energy: **65.0%**

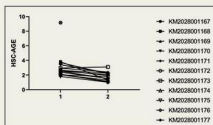
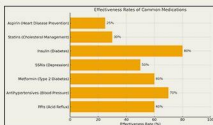
Reduced Frequency of Colds or Illnesses: **55.0%**

Faster Recovery Speed: **58.0%**

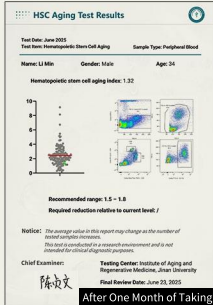
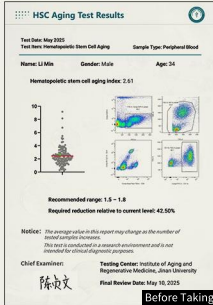
Dual Efficacy Validation: Data Evaluation

Hematopoietic Stem Cell Aging Index

After just one month of trial use,
the hematopoietic stem cell aging index decreased by an average of **12%**,
with **81.5%** of participants showing improvement.



Data Cases ▼



What Is the Hematopoietic Stem Cell Aging Index?

Hematopoietic stem cells (HSCs) possess multilineage differentiation potential and primarily give rise to two major cell lineages: lymphoid and myeloid.

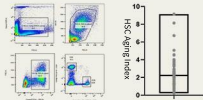
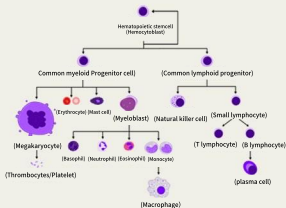
Lymphoid Lineage:

Differentiates into T cells, B cells, and natural killer (NK) cells. T and B cells are key players in adaptive immunity, providing long-lasting, antigen-specific protection. Although NK cells originate from the lymphoid lineage, they function primarily in innate immunity by rapidly detecting and eliminating infected or malignant cells through non-specific mechanisms.

Myeloid Lineage:

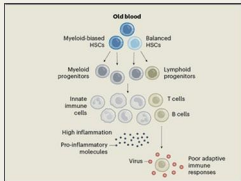
Generates granulocytes, monocytes/macrophages, dendritic cells, erythrocytes, and platelets. These cells contribute to innate immunity by mounting fast, broad-spectrum responses to pathogens, clearing senescent cells, and supporting tissue repair and inflammation resolution.

▼ Hematopoietic Lineage Differentiation Chart



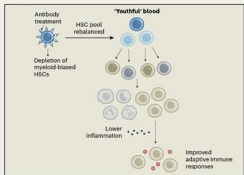
With advancing age, HSCs progressively acquire a myeloid-biased differentiation profile, marked by enhanced commitment toward the myeloid lineage and diminished lymphopoiesis. This age-associated lineage skewing is a well-established hallmark of HSC aging and is widely utilized as a functional biomarker for evaluating stem cell senescence and hematopoietic system deterioration.

Aged vs. Young Hematopoietic Profiles



With aging, hematopoietic stem cells (HSCs) show a marked shift toward myeloid differentiation, leading to overactive innate immunity and increased inflammation. Meanwhile, reduced lymphoid output weakens adaptive immune responses, lowering precision and immune memory. This imbalance contributes to immunodeficiency and chronic inflammation, raising the risk of disease.

In a youthful state, hematopoietic stem cells (HSCs) display balanced differentiation into both myeloid and lymphoid lineages. This results in a well-coordinated immune system, where innate immunity offers rapid defense, and adaptive immunity ensures precise recognition and memory. The body remains in a state of strong immunity with low inflammatory load, reducing disease risk and supporting long-term health.

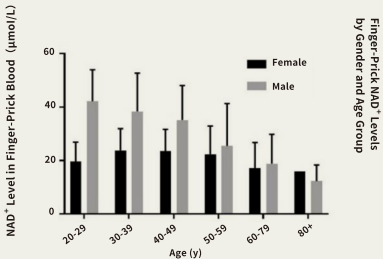


Dual-Effect Feedback

Data Evaluation

NAD⁺

NAD⁺ (Nicotinamide Adenine Dinucleotide) is an essential coenzyme found in all living cells. It plays a key role in cellular energy metabolism, DNA repair, and other vital biological processes, earning it the name "molecule of life." In youth, NAD⁺ levels are abundant, supporting efficient cellular function. However, as we age, NAD⁺ levels naturally decline, impairing cell performance and accelerating the aging process.



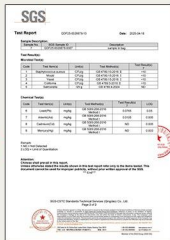
Youthful State:

High NAD⁺ levels support strong metabolism, efficient energy (ATP) production, and rapid DNA repair —keeping cells healthy and active.

Aged State:

NAD⁺ declines by 50–75% with age, leading to weaker mitochondria, more DNA damage, and reduced cellular resilience—driving the aging process.

Factory Photos and Qualifications



Factory Photos and Qualifications

地址：杭州路

提美單位簽案證明

统一社会信用代码	91510107MA6F8K629F
名称	四川新美隆生物科技有限公司
所在地海关	保税海关
经营范围	报关企业、进出口货物代理
查询截止日期	2025 年 11 月 20 日

说明：此表统计截至2016年12月31日的统计数据和备查情况。如有备查情况，请通过“中国海关企业信用公示平台”（<http://credit.customs.gov.cn/>）查询或联系海关。



● 本書は、2013年10月現在、最新のデータに基づいて作成された。本書の作成に、関係者の皆様からいただいたご協力、ご支援に感謝いたします。

傳真號碼	聯絡日期

● 產品經理的挑戰

生產商名稱	新德林品(香港)國際有限公司
生產商地址	香港新沙田車廠路88-120號 亞洲廣場中心 2101室
報告書的地區及/或地方	中國內地

這證明利用數據的產品比其由傳統工藝所製得的會物製造得堅固得多。事實上，這也證實了所有製造品都有進行測試的必要。

依據臺灣地區與大陸地區人民關係條例第 13 條及《臺灣地區與大陸地區人民關係條例》第 4 條（強制出境）及第 13 條（強制出境）的規定：



售價 100 元

圖 6-10-1 點雲圖



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總體總數	總計人數
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● 2010年10月1日起，凡在中华人民共和国境内销售货物或者提供加工、修理修配劳务以及进口货物的单位和个人，均应按照《中华人民共和国增值税暂行条例》及实施细则缴纳增值税。

生產商名稱	新達利食品(香港)有限公司
生產商地址	香港沙田沙頭角新街187-189A 新達利集團中心1002室

該發明對於所製備的藥品以及由該等藥品所製備的藥物製造過程造成影響，其

本書是作者多年教學經驗的結晶，內容充實，條理清晰，是醫藥專業人士必備的參考書。



動物園

●●●●●

項目	品名	製造品名	現貨数量	手裏(口)	在庫状況	数量	原価(円)	利益(円)
1.	LEDライト	東芝照明株式会社製 LED 照明器具	131,561	257,450	257,450	0个	0円	0円

[illegible]

0000-0001-9000-0000



本報地址：新加坡坡底大馬路門牌111號

[illegible]

圖書·雜誌

THE UNIVERSITY OF CHICAGO PRESS



CELUVIN

Factory Photos and Qualifications

知識產權署註冊商標
Trade Marks Registry
Intellectual Property Department

香港特別行政區政府
The Government of the Hong Kong
Special Administrative Region

商標(註冊)證書
[註冊商標] (已註冊商標)
CERTIFICATE OF REGISTRATION OF TRADE MARK
Trade Marks Ordinance (Chapter 559)

註冊人(商標所有人)姓名/名稱/地址
I/We (only for the Trade Mark owner) Name/Name of firm/Address (for extended right to register only)

商標
Trade Mark No. 1547000

商標
Mark: **CELUVIN**

商標種類
Mark Type: 一般商標

商標圖樣
Mark Description: 文字

商標地址
Mark Address: 香港

商標人姓名/名稱/地址
Owner's Name, Address: 維多利亞集團有限公司
Victory Group Limited
香港中環皇后大道中155號
155 Queen's Road Central, Hong Kong

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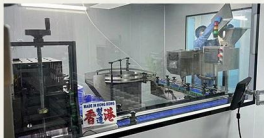
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1547000-0001 頁 1 共 1 頁



Factory Photos and Qualifications



*Image Source: On-site Photograph Taken at the Hong Kong Production Factory

Instructions and Precautions

CELUVIN®HEMATOPOIETIC STEM CELL SUPPLEMENT

- **Recommended Dosage**

Suggested use: 2 capsules once per day

- **Recommended Intake Time**

Take 2-3 hours before bedtime

- **Storage Conditions**

Store this product in a cool, dry place with the container tightly sealed, and avoid direct sunlight.

Keep it out of reach of children to ensure safety

- **Precautions for Special Populations**

Not recommended for self-administration by individuals with cancer or undergoing cancer treatment, breastfeeding women, or those suffering from an acute illness. Consult a physician before use.

CELUVIN®H1 SPECIAL DIETARY TABLET

- **Recommended Dosage**

Suggested Use: Take 1-2 tablets once daily with warm water

- **Recommended Intake Time**

Take 2-3 hours before bedtime

- **Storage Conditions**

Store this product in a cool, dry place with the container tightly sealed, and keep away from direct sunlight

- **Unsuitable Populations**

Not suitable for infants, pregnant women, lactating women and children under 14 years of age

- **Suitable Populations**

For all sports people in need of endurance supplementation

CELUVIN®

PRESTIGE PROSPERITY (HONG KONG) INVESTMENT CO., LIMITED

Sichuan New Celuvn Biotechnology Co., Ltd.

CELUVIN®

Global Release



Redefining Anti-Aging with Science

Validated by Data, Proven by Experience

