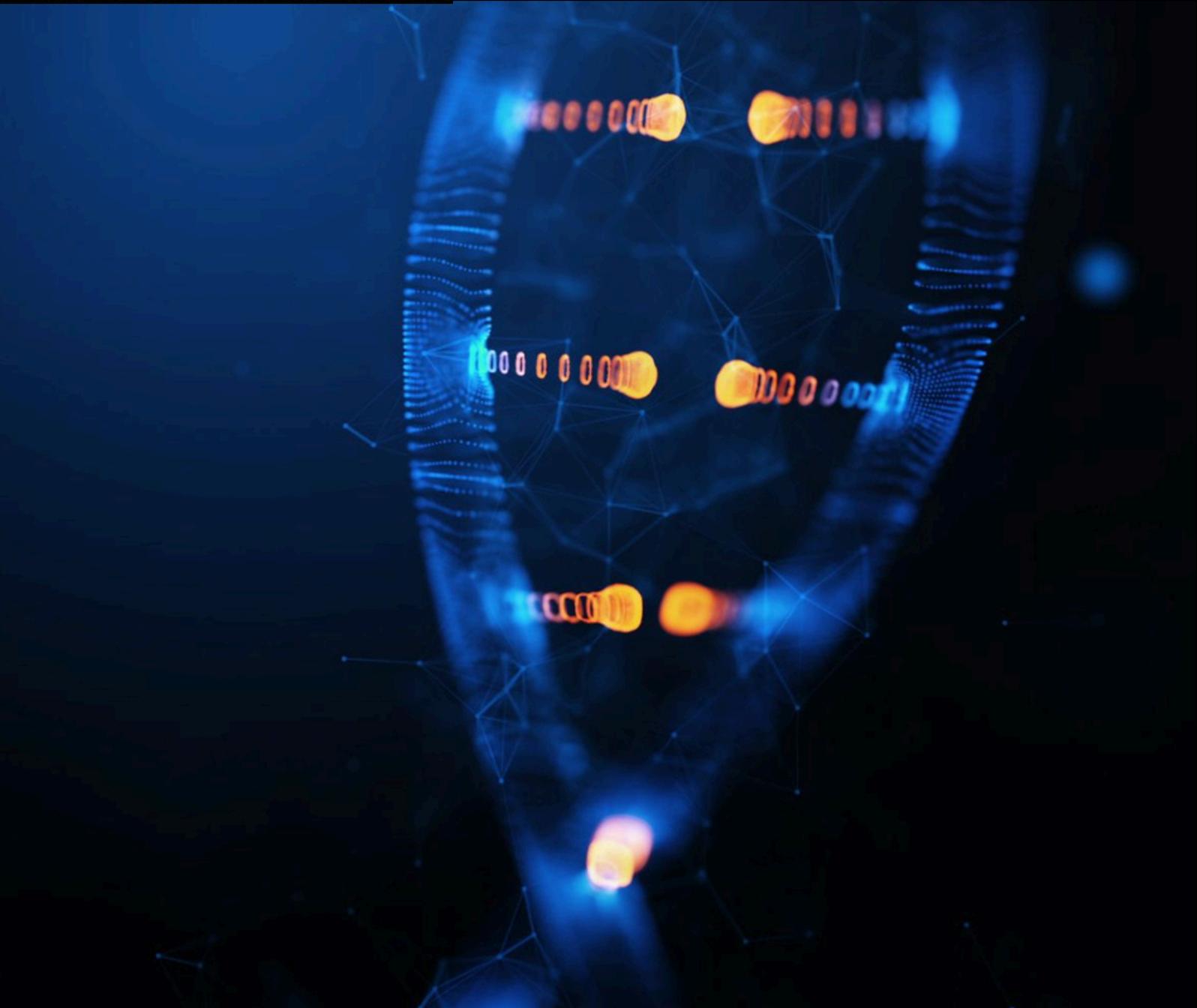




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Peptide Research Packages



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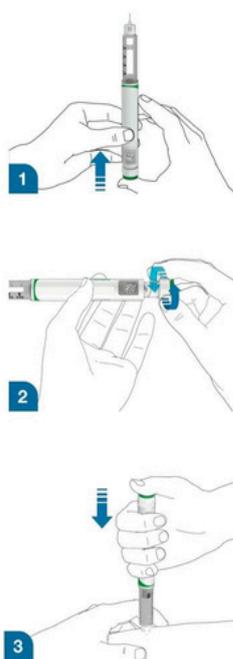
Peptides: Unlocking the Future of Personalised Health and Regeneration

Peptides are short chains of amino acids, the essential building blocks of proteins, naturally produced in the body to regulate biological processes. These small but powerful molecules serve as messengers in the body, sending signals to cells and tissues to trigger critical functions such as healing, regeneration, metabolism, fat reduction, immune support, and anti-ageing.

We specialise in the development and production of injectable peptides—a superior method of peptide delivery designed for enhanced absorption, potency, and results. Unlike edible peptides that must pass through the digestive system, injectable peptides bypass this barrier entirely, allowing for direct absorption into the bloodstream and ensuring maximum efficacy.

Our state-of-the-art laboratories and patented formulations allow us to lead the way in precision peptide therapies, offering solutions that target specific health goals with scientific accuracy. Backed by peer-reviewed research and our deep commitment to innovation, our peptides are transforming the fields of regenerative medicine, longevity science, and performance optimisation.

We provide an extensive overview of our peptides, broken into categories to address various health goals. Each section explains the science and benefits in a clear, accessible way so everyone—from athletes to biohackers to individuals seeking improved wellness—can understand their potential.





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EDGE 59



Why Injectable Peptides?

While edible peptides (such as protein powders and supplements) have some benefits, their efficacy is limited because they are broken down in the stomach and liver before being absorbed. This degradation process reduces the concentration of peptides that reach the bloodstream, resulting in less pronounced effects.

Injectable peptides, on the other hand, are delivered directly into the bloodstream via subcutaneous (just under the skin) or intramuscular (into the muscle) injections. This method offers several distinct advantages:

- **Enhanced Absorption:** 100% of the peptide reaches the bloodstream, maximising its bioavailability.
- **Rapid Results:** Effects are faster and more pronounced compared to oral administration.
- **Precise Dosing:** Injectable peptides allow for accurate and controlled delivery.
- **Longer Half-Life:** Many peptides are stabilised in injectable form, extending their active duration in the body.

The Science Behind Injectable Peptide Delivery

The digestive system is designed to break down proteins and peptides into their constituent amino acids. When peptides are taken orally, they encounter several enzymatic barriers:

- **Gastric acid:** The stomach's highly acidic environment begins denaturing peptides immediately upon ingestion
- **Pancreatic enzymes:** Proteases like trypsin and chymotrypsin actively break down peptide bonds
- **Intestinal brush border enzymes:** Further degrade peptides during absorption
- **First-pass metabolism:** Peptides that do survive face additional breakdown in the liver

These natural digestive processes mean that oral peptides typically have a bioavailability of less than 1-2%, making them inefficient for therapeutic purposes.

Advanced Delivery Technology

BWK Edge 59, injectable peptides utilise pharmaceutical-grade delivery systems:

- **Precision formulation:** Each peptide is carefully stabilised with appropriate buffers and preservatives to maintain molecular integrity
- **Sterile manufacturing:** Our peptides are produced in ISO-certified clean rooms to ensure the highest purity standards
- **Cold-chain logistics:** Temperature-controlled from production to delivery, preserving peptide structure and efficacy
- **Pharmaceutical-grade packaging:** Light-resistant vials and precise injection systems ensure optimal storage and administration





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Safety and Administration

Modern injectable peptide therapy has been designed with safety and comfort in mind:

- **Micro-needle technology:** Ultra-fine needles (30-32 gauge) make injections virtually painless
- **Simple administration protocols:** Subcutaneous injections can be easily self-administered after proper instruction
- **Minimal side effects:** Direct delivery bypasses gastrointestinal issues common with oral supplements
- **Targeted therapy:** Peptides can be delivered to specific tissues for enhanced local effects

Personalised Peptide Protocols

Injectable peptides enable truly personalised therapeutic approaches:

- **Customised dosing:** Precise administration allows for individually tailored treatment plans
- **Combination therapies:** Multiple peptides can be administered in specific sequences for synergistic effects
- **Adaptive protocols:** Dosage can be adjusted based on individual response and biomarkers
- **Cyclical administration:** Specific timing protocols optimise results while minimising adaptation

We focus exclusively on high-quality injectable peptides that are rigorously tested for safety, purity, and efficacy. Our comprehensive approach includes detailed protocols, professional guidance, and ongoing support to ensure optimal results from your peptide therapy programme.





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Elite Peptide Pens and Sprays

With BWK Edge 59, injectable peptides, you can achieve measurable and transformative results—unlocking the true potential of your health and longevity. Our state-of-the-art laboratories and patented formulations allow us to lead the way in precision peptide therapies, offering solutions that target specific health goals with scientific accuracy.

1. Muscle Growth and Maintenance

- IGF-1LR3 (Insulin-Like Growth Factor-1, Long R3)
- Follistatin 344
- Ipamorelin
- Tesamorelin

2. Tissue Healing and Recovery

- TB-500 (Thymosin Beta-4)
- BPC-157 (Body Protection Compound-157)
- TB500+BPC157 Combo
- BPC SPRAY
- TB4 (Thymosin Beta 4)

3. Fat Burning/Fat Reduction

- Tirzepatide
- Semaglutide
- Adipotide
- Retatrutide
- AOD9604

4. Libido and Sexual Health

- PT-141 (Bremelanotide)
- Kisspeptin
- Melanotan 2
- Oxytocin (SPRAY)

5. Skin Health and Beauty

- SS-31
- Skin-glow (GHK-Cu)
- PHDP5 (SPRAY)

6. Longevity and Anti-Aging

- Epitalon
- Humanin
- NAD+ / NAD (SPRAY)
- MOTS-c
- Thymosin ALPHA 1

7. Immune System Support

- GcMAF
- Thymalin
- Thymogen
- NK Peptide

8. Organ-Specific Support

- Bronchogen
- Cardiogen
- Prostamax

9. Sleep and Brain Function

- Delta Sleep
- AC-Semax-NH2
- AC-Selank-NH2

10. Specialised Peptides

- AC-KPV-NH2
- Melittin
- Teriparatide
- Cecropin B (mice)
- Cecropin p17 (mice)
- CecropinLHRH (mice)
- VIP (Vasoactive Intestinal Peptide)



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EDGE 59



Peptide Research Packages - Complete Catalog

1. Muscle Growth and Maintenance





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1. Muscle Growth and Maintenance

Peptides in this category are designed to enhance muscle development, repair, and performance by optimising natural growth factors and hormonal pathways. These specialised compounds work by stimulating protein synthesis, enhancing cellular reproduction in muscle tissue, and regulating myostatin—a protein that naturally limits muscle growth. Through these mechanisms, peptides like IGF-1LR3, Follistatin 344, Ipamorelin, and Tesamorelin create an optimal environment for increasing lean muscle mass, accelerating recovery from training, and enhancing overall strength and performance. Their targeted approach allows for muscle development without the systemic side effects often associated with traditional anabolic compounds, making them valuable tools for athletes, bodybuilders, and those recovering from muscle atrophy due to aging or injury.

IGF-1LR3 (Insulin-Like Growth Factor-1, Long R3)

What is it? IGF-1LR3 is a modified version of insulin-like growth factor-1, a natural hormone responsible for cell growth and repair. This peptide mimics IGF-1 but has a longer half-life, allowing it to remain active in the body for extended periods.

How it works:

- Stimulates muscle cell proliferation and differentiation, accelerating muscle growth
- Enhances protein synthesis while reducing protein breakdown, resulting in increased lean muscle mass
- Promotes faster recovery after workouts or injury by repairing damaged muscle fibres

Benefits:

- Increased muscle growth and strength
- Faster recovery from exercise and injury
- Improved endurance and performance

Follistatin 344

What is it? Follistatin 344 is a peptide that suppresses myostatin, a protein that naturally inhibits muscle growth. By blocking myostatin, this peptide allows for significant increases in muscle mass.

How it works:

- Inhibits myostatin, removing the limitations on muscle growth
- Encourages new muscle formation and prevents muscle breakdown

Benefits:

- Dramatic increases in lean muscle mass
- Enhanced recovery and repair
- Ideal for bodybuilders, athletes, and individuals recovering from muscle atrophy





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Ipamorelin

What is it? Ipamorelin is a selective growth hormone secretagogue that stimulates the pituitary gland to release growth hormone naturally.

How it works:

- Selectively triggers growth hormone release without affecting cortisol or prolactin levels
- Works through a pulsatile release pattern similar to the body's natural GH production

Benefits:

- Increased lean muscle mass development
- Enhanced fat loss while preserving muscle tissue
- Improved recovery and sleep quality
- Minimal side effects compared to other growth hormone peptides

Tesamorelin

What is it? Tesamorelin is a growth hormone-releasing hormone (GHRH) analogue that stimulates endogenous production of growth hormone.

How it works:

- Binds to GHRH receptors in the pituitary gland, increasing natural GH production
- Helps reduce visceral adipose tissue while preserving lean muscle mass

Benefits:

- Enhanced muscle development and reduction of visceral fat
- Improved metabolic profile and body composition
- Natural approach to increasing growth hormone levels





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Peptide Research Packages - Complete Catalog

2. Tissue Healing and Recovery





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2. Tissue Healing and Recovery

Tissue healing peptides represent revolutionary advancements in regenerative medicine, targeting the body's natural repair mechanisms to accelerate recovery from injuries, surgeries, and chronic inflammatory conditions. These bioactive compounds, including TB-500, BPC-157, and their synergistic combinations, work by stimulating angiogenesis (formation of new blood vessels), enhancing collagen production, and facilitating cell migration to damaged areas. They also modulate inflammatory responses, creating an optimal healing environment while reducing pain and discomfort. The unique ability of these peptides to support connective tissue repair makes them particularly valuable for treating stubborn injuries to tendons, ligaments, and joints that traditionally heal slowly due to limited blood supply. Their comprehensive healing properties extend beyond musculoskeletal applications to include gastrointestinal repair, wound healing, and recovery from intensive training or surgical interventions.

TB-500 (Thymosin Beta-4)

What is it? TB-500 is a synthetic form of Thymosin Beta-4, a natural peptide that promotes tissue repair and reduces inflammation.

How it works:

- Stimulates angiogenesis (new blood vessel formation), improving blood flow to damaged tissues
- Enhances cell migration and regeneration to repair muscles, tendons, and ligaments
- Reduces inflammation and oxidative stress, aiding recovery

Benefits:

- Accelerated healing of injuries (muscles, ligaments, and tendons)
- Reduced pain and inflammation
- Improved flexibility and range of motion

BPC-157 (Body Protection Compound-157)

What is it? BPC-157 is a peptide derived from gastric juices, known for its profound healing properties.

How it works:

- Stimulates tissue repair and regeneration by increasing growth factors
- Promotes angiogenesis and collagen production, essential for wound healing
- Supports the gut lining, making it effective for gastrointestinal issues

Benefits:

- Rapid healing of muscles, tendons, ligaments, and joints
- Reduces inflammation and pain
- Supports gastrointestinal health and repair





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TB500+BPC157 Combo

What is it? A powerful combination of two of the most effective healing peptides, offering synergistic benefits for recovery and repair.

Benefits:

- Comprehensive tissue healing and regeneration
- Faster recovery from injuries or surgeries
- Reduction in inflammation and improved overall mobility

BPC SPRAY

What is it? A topical delivery system of BPC-157 designed for localized healing and recovery.

How it works:

- Provides direct application to affected areas for targeted relief
- Allows for non-injectable administration of BPC-157's healing properties

Benefits:

- Convenient application for localized injuries
- Accelerated wound healing and reduced inflammation
- Suitable for those who prefer non-injectable delivery methods

TB4 (Thymosin Beta 4)

What is it? The natural form of Thymosin Beta-4, a protein that plays a vital role in tissue repair and protection.

How it works:

- Promotes cell migration and tissue regeneration
- Reduces inflammation and fibrosis during the healing process

Benefits:

- Enhanced wound healing and tissue repair
- Cardiovascular protective effects
- Improved recovery from sports injuries



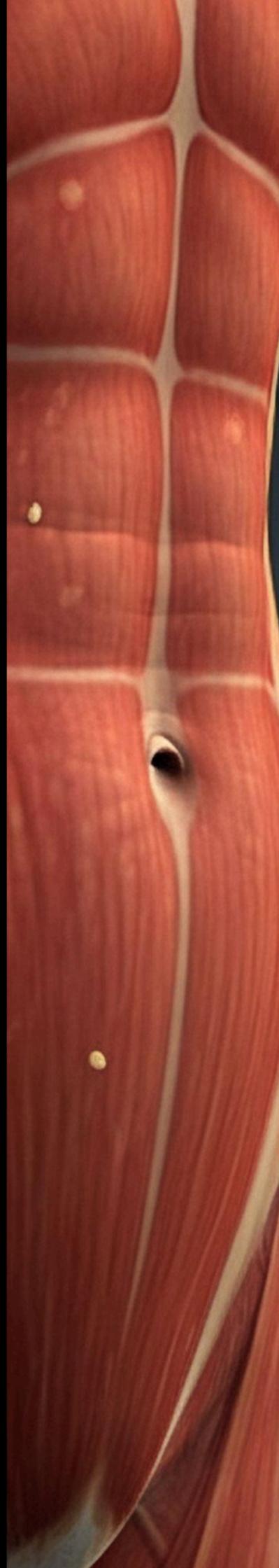


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Peptide Research Packages - Complete Catalog

3. Fat Burning/Fat Reduction





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3. Fat Burning/Fat Reduction

Fat burning peptides offer a sophisticated approach to weight management by targeting specific metabolic pathways that regulate fat storage, appetite, and energy utilisation. Unlike traditional weight loss approaches that often lead to muscle loss alongside fat reduction, peptides such as Tirzepatide, Semaglutide, Adipotide, Retatrutide, and AOD9604 work through precise mechanisms that preferentially target adipose tissue while preserving lean muscle mass. These advanced compounds function by enhancing insulin sensitivity, regulating hunger signals in the brain, increasing metabolic rate, and in some cases, directly targeting the blood vessels that supply fat cells. The result is a comprehensive approach to body composition improvement that addresses both the physiological and hormonal factors contributing to stubborn fat accumulation, particularly in areas resistant to diet and exercise alone, offering a more sustainable path to achieving optimal body composition.

Tirzepatide

What is it? Tirzepatide is a dual GLP-1 and GIP receptor agonist that regulates blood sugar and promotes fat loss.

How it works:

- Enhances insulin sensitivity and suppresses hunger
- Encourages the body to use fat for energy, leading to weight loss

Benefits:

- Significant fat loss and weight reduction
- Improved metabolic health

Semaglutide

What is it? Semaglutide is a GLP-1 receptor agonist that mimics the body's natural satiety signals.

Benefits:

- Reduces hunger and promotes feelings of fullness
- Supports steady fat loss with minimal muscle loss

Adipotide

What is it? Adipotide is a unique peptide that directly targets fat cells, reducing body fat in stubborn areas.

Benefits:

- Effective fat reduction
- Improved body composition





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EDGE 59



Retatrutide

What is it? Retatrutide is a triple receptor agonist targeting GLP-1, GIP, and glucagon receptors for comprehensive metabolic effects.

How it works:

- Activates multiple metabolic pathways simultaneously for enhanced fat burning
- Suppresses appetite while increasing energy expenditure

Benefits:

- Powerful weight reduction effects
- Improved glucose metabolism and insulin sensitivity
- Potentially more effective than single-target peptides for stubborn obesity

AOD9604

What is it? AOD9604 is a modified fragment of human growth hormone (HGH) specifically designed to target fat loss.

How it works:

- Mimics the fat-burning effects of HGH without affecting blood sugar or growth
- Stimulates lipolysis (fat breakdown) and inhibits lipogenesis (fat formation)

Benefits:

- Reduction in stubborn fat deposits
- Improved fat metabolism without growth hormone side effects
- May help with fat loss in areas resistant to diet and exercise





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EDGE 59



Peptide Research Packages - Complete Catalog

4. Libido and Sexual Health





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EDGE 59

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4. Libido and Sexual Health

Sexual health peptides represent a groundbreaking approach to addressing intimacy challenges by targeting the neurological and vascular pathways that govern arousal, desire, and sexual function. Unlike conventional treatments that often focus solely on physical symptoms, peptides such as PT-141, Kisspeptin, Melanotan 2, and Oxytocin work at the level of the central nervous system to restore and enhance the body's natural sexual response mechanisms. These innovative compounds influence key neurotransmitters, hormonal signaling, and vascular dynamics to comprehensively improve sexual wellness in both men and women. By addressing the underlying physiological factors that contribute to diminished libido and sexual satisfaction, these peptides offer a more holistic solution that enhances both the emotional and physical aspects of intimacy, often restoring confidence and relationship satisfaction that extends well beyond the bedroom.

PT-141 (Bremelanotide)

What is it? PT-141 is a peptide that works on the brain's melanocortin receptors, enhancing sexual desire and arousal.

Benefits:

- Improved libido and sexual satisfaction
- Effective for men and women

Kisspeptin

What is it? Kisspeptin is a naturally occurring peptide that plays a crucial role in regulating reproductive hormones and sexual development.

How it works:

- Stimulates GnRH (Gonadotropin-Releasing Hormone) release in the hypothalamus
- Enhances the release of luteinizing hormone (LH) and follicle-stimulating hormone (FSH)

Benefits:

- Increases testosterone production in men
- Improves fertility and reproductive hormone balance
- Enhances sexual desire and performance
- May help restore hormonal balance in certain reproductive disorders





AUTHENTIC
EDGE 59



Melanotan 2

What is it? Melanotan 2 is a synthetic analogue of alpha-melanocyte stimulating hormone that affects multiple systems including skin pigmentation and sexual function.

How it works:

- Activates melanocortin receptors that influence sexual arousal pathways
- Stimulates melanin production (tanning effect)

Benefits:

- Enhanced libido and sexual performance
- Increased skin tanning with less UV exposure
- May support weight management through appetite suppression

Oxytocin (SPRAY)

What is it? Oxytocin is known as the "love hormone" or "bonding hormone" delivered in a convenient nasal spray form.

How it works:

- Binds to oxytocin receptors in the brain that influence social bonding and intimacy
- Enhances emotional connection during intimate encounters

Benefits:

- Improved emotional intimacy and bonding with partners
- Enhanced orgasm intensity and sexual satisfaction
- Reduced anxiety surrounding sexual encounters
- Convenient non-injectable delivery system





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EDGE 59



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5. Skin Health and Beauty





AUTHENTIC
EDGE 59

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5. Skin Health and Beauty

Skin rejuvenation peptides represent the vanguard of advanced aesthetic medicine, working at the cellular level to restore and maintain skin's youthful structure, function, and appearance. These sophisticated bioactive compounds, including SS-31, GHK-Cu (Skin-glow), and PHDP5, target multiple aspects of skin aging by stimulating collagen and elastin production, enhancing cellular turnover, improving microcirculation, and protecting against oxidative damage. Unlike topical treatments that struggle to penetrate the skin's protective barrier, injectable peptides deliver their regenerative benefits directly to the dermal layer where skin aging begins. The result is comprehensive skin rejuvenation that addresses fine lines, wrinkles, elasticity, tone, and texture simultaneously. These peptides offer a more natural approach to aesthetic enhancement by working with the body's inherent regenerative capabilities, delivering results that appear gradual and natural rather than artificial or overdone.

SS-31

What is it? SS-31 is a mitochondria-targeting peptide that reduces oxidative stress and improves cellular energy production.

Benefits:

- Reduces oxidative stress in skin cells
- Improves skin tone and reduces aging signs

Skin-glow (GHK-Cu)

What is it? A copper peptide that promotes collagen synthesis, skin repair, and elasticity while reducing wrinkles and inflammation.

Benefits:

- Stimulates collagen and elastin production
- Reduces wrinkles and enhances skin radiance

PHDP5 (SPRAY)

What is it? A topical peptide spray designed to enhance skin regeneration and provide anti-aging benefits.

How it works:

- Delivers a complex of peptides that support skin cell renewal
- Provides hydration and antioxidant protection

Benefits:

- Reduces fine lines and wrinkles
- Improves skin texture and firmness
- Convenient spray application for daily use



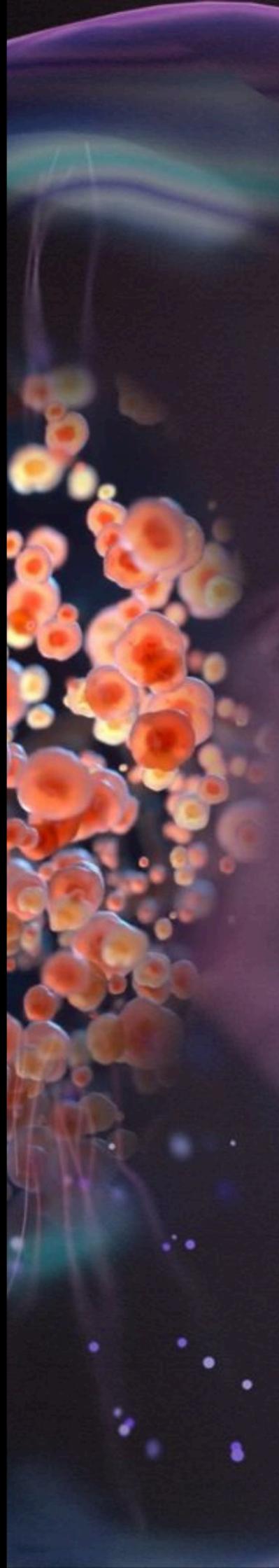


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EDGE 59



Peptide Research Packages - Complete Catalog

6. Longevity and Anti-Aging





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EDGE 59



6. Longevity and Anti-Aging

Longevity peptides represent the cutting edge of anti-aging science, targeting the fundamental cellular mechanisms that govern the aging process itself. These sophisticated compounds, including Epitalon, Humanin, NAD⁺, MOTS-c, and Thymosin ALPHA 1, work by influencing telomere length, enhancing mitochondrial function, optimising cellular energy production, and regulating immune system resilience—all critical factors in determining how quickly our bodies age. Rather than simply addressing the visible signs of aging, these peptides work at the genomic and cellular levels to potentially extend lifespan and, more importantly, 'healthspan'—the period of life spent in good health. By supporting DNA repair mechanisms, enhancing cellular stress resistance, and maintaining optimal cellular communication, these compounds offer a comprehensive approach to age management that may help preserve cognitive function, physical vitality, and metabolic health well into advanced years.

Epitalon

What is it? A peptide that activates telomerase, an enzyme that lengthens DNA telomeres.

Benefits:

- Slows cellular aging
- Improves sleep and overall vitality

Humanin

What is it? A mitochondrial peptide that protects cells from age-related damage.

Benefits:

- Supports cognitive function
- Enhances mitochondrial health

NAD⁺ / NAD (SPRAY)

What is it? Nicotinamide Adenine Dinucleotide is a crucial coenzyme involved in cellular energy production and DNA repair, available in injectable or spray form.

How it works:

- Serves as a critical coenzyme in mitochondrial energy production
- Supports DNA repair mechanisms and cellular resilience
- Activates sirtuins, proteins involved in longevity pathways

Benefits:

- Enhanced cellular energy and mitochondrial function
- Improved cognitive function and neuroprotection
- Supports healthy aging and longevity
- Spray form offers convenient non-injectable delivery





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EDGE 59



MOTS - c

What is it? MOTS-c is a mitochondrially derived peptide that regulates metabolic functions and enhances cellular resilience.

How it works:

- Activates AMPK pathway to improve metabolic flexibility
- Enhances glucose utilization and insulin sensitivity
- Stimulates mitochondrial biogenesis

Benefits:

- Improved metabolic health and insulin sensitivity
- Enhanced exercise performance and endurance
- Potential anti-aging effects through metabolic optimization
- Supports healthy body composition

Thymosin ALPHA 1

What is it? Thymosin Alpha 1 is an immune-modulating peptide that enhances the function of T-cells and other immune components.

How it works:

- Stimulates T-cell maturation and function
- Modulates immune response to pathogens and cellular abnormalities
- Enhances antigen recognition and processing

Benefits:

- Strengthened immune surveillance and response
- Improved resilience against infections
- Supports balanced immune function
- May enhance longevity through improved immune health



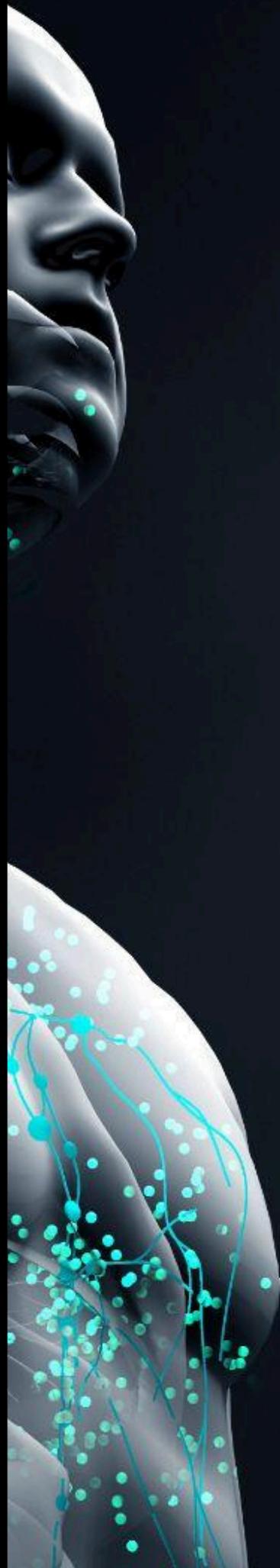


AUTHENTIC
EDGE 59



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7. Immune System Support





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7. Immune System Support

Immune modulating peptides offer a sophisticated approach to balancing and enhancing the body's natural defense systems, working with remarkable precision to optimise immune function rather than simply stimulating or suppressing it. These advanced bioregulators, including GcMAF, Thymalin, Thymogen, and NK Peptide, target specific components of the immune system to enhance surveillance against pathogens and abnormal cells while preventing excessive inflammatory responses that can damage healthy tissues. By supporting thymus gland function, natural killer cell activity, macrophage function, and balanced cytokine production, these peptides help restore immune coordination that commonly declines with age, stress, or illness. Their nuanced approach to immune modulation makes them valuable tools for supporting resilience against infections, enhancing recovery from illness, and maintaining the delicate balance of immune tolerance and vigilance necessary for optimal health.

GcMAF

What is it? Gc protein-derived Macrophage Activating Factor is an immune-modulating protein that activates macrophages.

How it works:

- Activates macrophages to enhance immune surveillance
- Helps regulate immune responses in various conditions

Benefits:

- Enhanced immune system function
- Supports the body's natural defense mechanisms

Thymalin

What is it? Thymalin is a peptide complex derived from the thymus gland that helps regulate immune function.

How it works:

- Regulates T-cell differentiation and maturation
- Helps restore normal thymus function

Benefits:

- Improved immune response and regulation
- Enhanced resistance to infections
- May help counteract age-related immune decline





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EDGE 59



Thymogen

What is it? A synthetic dipeptide that mimics natural thymic peptides to regulate immune function.

How it works:

- Stimulates T-lymphocyte differentiation and maturation
- Helps normalize immune cell ratios

Benefits:

- Enhanced immune system regulation
- Improved recovery from immune-related conditions
- Supports healthy aging through immune optimization

NK Peptide

What is it? A peptide designed to enhance the function of Natural Killer (NK) cells, a critical component of the immune system.

How it works:

- Stimulates NK cell production and activity
- Enhances the body's ability to identify and eliminate abnormal cells

Benefits:

- Strengthened immune surveillance
- Enhanced natural defense mechanisms
- Supports overall immune resilience



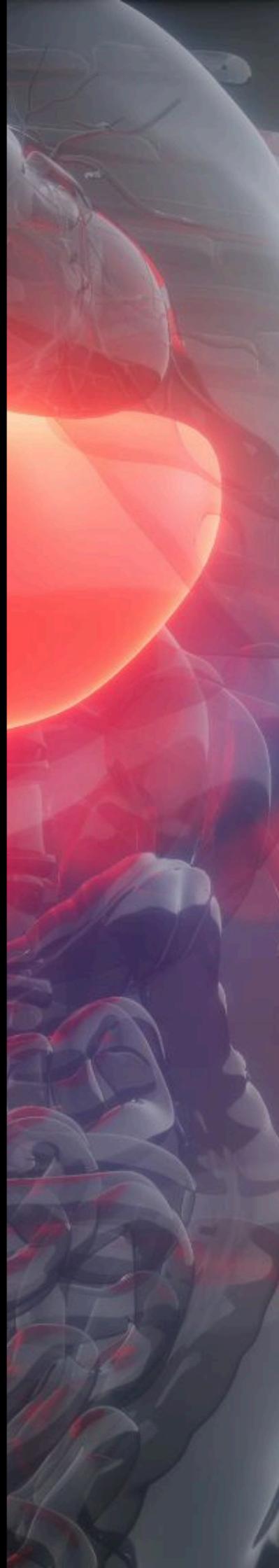


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EDGE 59



Peptide Research Packages - Complete Catalog

8. Organ-Specific Support



8. Organ-Specific Support

Organ-specific peptide bioregulators represent a revolutionary approach to supporting the function and resilience of vital body systems through targeted tissue regeneration and metabolic optimisation. These specialised compounds, including Bronchogen, Cardiogen, and Prostamax, are designed to influence specific gene expression patterns within individual organs, supporting their natural repair mechanisms and functional capacity. Unlike conventional approaches that often address symptoms, these peptides work at the genetic and cellular levels to restore optimal tissue function, enhance cellular energy production, and improve microcirculation within target organs. This precise approach allows for supporting cardiovascular health, respiratory function, prostate wellness, and other organ systems with minimal systemic effects. By enhancing the body's inherent tissue-specific regenerative capacity, these bioregulators offer a promising avenue for maintaining organ function with age and supporting recovery from environmental stressors or health challenges.

Bronchogen

What is it? Bronchogen is a peptide bioregulator specifically designed to support lung tissue health and function.

How it works:

- Regulates protein synthesis in lung tissue cells
- Helps restore and maintain normal lung tissue function

Benefits:

- Supports respiratory health and function
- May help with lung tissue recovery and maintenance
- Potential beneficial effects for those with respiratory challenges

Cardiogen

What is it? A peptide bioregulator that targets heart tissue to support cardiovascular health and function.

How it works:

- Regulates protein synthesis in cardiac cells
- Helps normalize heart muscle metabolism and function

Benefits:

- Supports heart health and normal cardiac function
- May help maintain cardiovascular resilience
- Contributes to overall heart tissue maintenance

Prostamax

What is it? A peptide bioregulator specifically designed to support prostate gland health and function.

How it works:

- Regulates protein synthesis in prostate tissue
- Helps normalize prostate cellular function

Benefits:

- Supports healthy prostate function
- May help maintain normal prostate size
- Contributes to male urogenital health



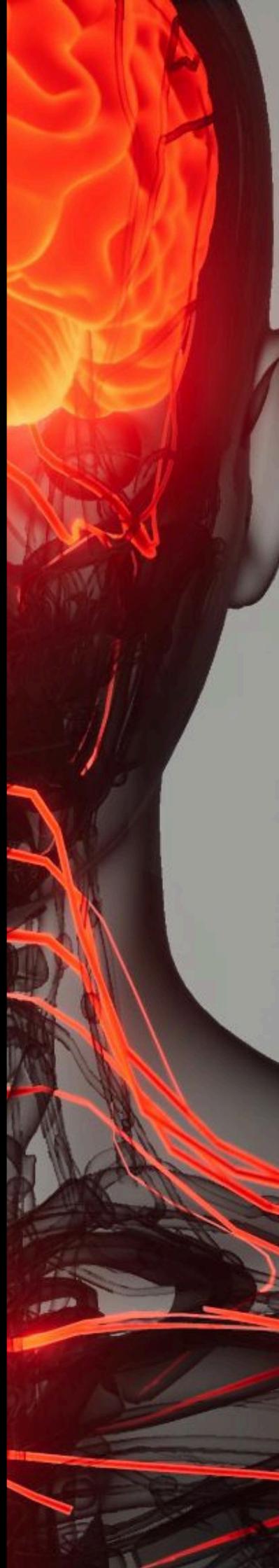


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9. Sleep and Brain Function





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EDGE 59



9. Sleep and Brain Function

Neuroactive peptides represent the frontier of cognitive enhancement and neurological wellness, targeting the complex biochemical environment of the brain to optimise mental performance, emotional resilience, and sleep quality. These sophisticated compounds, including Delta Sleep, AC-Semax-NH₂, and AC-Selank-NH₂, influence neurotransmitter systems, support neuroplasticity, protect against oxidative stress, and enhance cerebral blood flow—all critical factors in maintaining peak cognitive function. Unlike synthetic nootropics that often work through stimulation or single pathway mechanisms, these peptides support the brain's natural processes for memory formation, focus, stress adaptation, and sleep architecture. Their ability to enhance both immediate cognitive performance and long-term neurological health makes them valuable tools for addressing age-related cognitive changes, supporting performance during periods of mental demand, improving sleep quality, and maintaining emotional balance during times of stress or challenge.

Delta Sleep

What is it? A peptide designed to enhance deep sleep phases essential for recovery and cognitive function.

How it works:

- Modulates neurotransmitters involved in sleep regulation
- Helps enhance slow-wave (delta) sleep patterns

Benefits:

- Improved sleep quality and architecture
- Enhanced recovery during sleep
- Better cognitive function and alertness during waking hours

AC-Semax-NH₂

What is it? An enhanced synthetic analogue of ACTH fragment 4-10 with improved stability and neuroprotective properties.

How it works:

- Stimulates neurotrophic factor synthesis
- Enhances central nervous system recovery and function

Benefits:

- Improved cognitive performance and memory
- Enhanced focus and mental clarity
- Neuroprotective effects supporting brain health
- Potential anxiety reduction and mood enhancement

AC-Selank-NH₂

What is it? A synthetic peptide based on a fragment of the human immunoglobulin G molecule with anxiolytic and nootropic effects.

How it works:

- Modulates the expression of brain-derived neurotrophic factor (BDNF)
- Affects serotonin and dopamine systems in the brain

Benefits:

- Reduced anxiety without sedation
- Enhanced cognitive function
- Improved stress resilience
- May support learning and memory formation





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EDGE 59



Peptide Research Packages - Complete Catalog

10. Specialised Peptides





10. Specialised Peptides

Specialised peptides represent cutting-edge applications of peptide science, addressing unique therapeutic needs through highly targeted biological mechanisms. These innovative compounds, including AC-KPV-NH₂, Melittin, Teriparatide, various Cecropins, and VIP, often feature novel structures or functions that distinguish them from more conventional peptide categories. Many originated from diverse biological sources such as insect immune systems, amphibian skin, or specific human hormonal fragments, and have been refined to enhance their therapeutic potential. While some address specialized needs like bone density enhancement or antimicrobial applications, others modulate distinct physiological pathways with applications that transcend traditional categorization. These specialized peptides showcase the remarkable versatility of peptide therapeutics, offering precision solutions for specific health challenges while continuing to expand our understanding of how these powerful signaling molecules can be harnessed for human health and longevity research.

AC-KPV-NH₂

What is it? The smallest biologically active fragment of α -MSH (alpha-melanocyte stimulating hormone) with powerful anti-inflammatory properties.

How it works:

- Binds to melanocortin receptors involved in inflammation control
- Inhibits pro-inflammatory cytokine production

Benefits:

- Potent anti-inflammatory effects
- Potential benefits for inflammatory skin conditions
- Supports immune system balance

Melittin

What is it? A principal component of bee venom with unique physiological effects.

How it works:

- Disrupts cell membranes through pore formation
- Stimulates enzymatic cascades that influence various biological functions

Benefits:

- Potential for targeted applications in research
- Unique mechanism of action distinct from other peptides
- Continues to be studied for various biological effects





AUTHENTIC
EDGE 59



Teriparatide

What is it? A recombinant form of parathyroid hormone used to stimulate bone formation.

How it works:

- Activates osteoblasts (bone-forming cells)
- Increases calcium absorption and retention

Benefits:

- Increased bone mineral density
- Reduced risk of bone fractures
- Particularly effective for severe osteoporosis
- Stimulates new bone formation rather than just preventing loss

Cecropin B, Cecropin p17, and CecropinLHRH (for mice)

What are they? Antimicrobial peptides derived from insects with applications in research models.

How they work:

- Form pores in microbial membranes
- Disrupt bacterial cell integrity

Benefits:

- Powerful research tools for immunological studies
- Potential templates for developing novel antimicrobial agents
- Specific application in mice research models

VIP (Vasoactive Intestinal Peptide)

What is it? A naturally occurring peptide hormone that influences various physiological functions including circulation, immunity, and digestion.

How it works:

- Binds to specific receptors affecting smooth muscle relaxation
- Modulates immune cell function and inflammatory responses
- Influences circadian rhythms and neuronal activity

Benefits:

- Supports digestive and circulatory health
- Anti-inflammatory properties
- May improve sleep quality and circadian rhythm regulation
- Potential cognitive and neuroprotective effects



