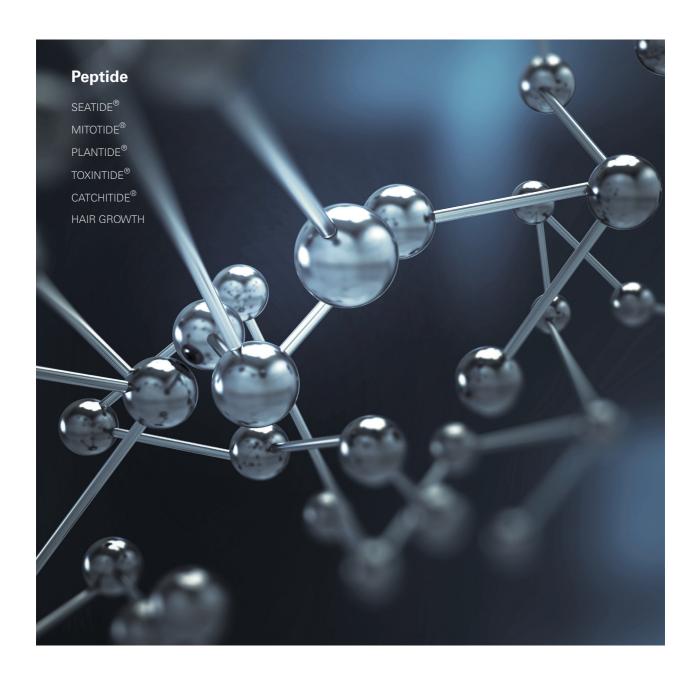
WELLPEP

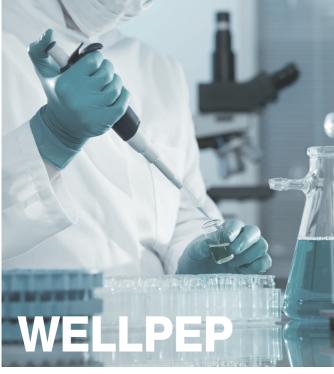
Leading the way for a beautiful life





A New Paradigm of Peptide for the Better World









WellPep - Dermatology for a Beautiful Life



Cosmetic peptides are leading a beauty revolution with multi-functional properties, including their ability to regulate biological functions. As skin care companies pursue this booming field of research, the need to have high quality of cosmetic peptides has greatly increased. WellPep has the capability to synthesize and supply the most trusted, reliable and affordable cosmetic peptides for the ever-growing demand.

Business Area



Cosmetic Peptide Functional Peptides

Natural product-based **Peptides**





Peptide for Research

Therapeutic Peptides Custom & Catalog **Peptides**



We are developing new cosmetic ingredients in six categories





Benefits of WellPep's Cosmetic Peptide Synthesis Services

Readily available catalog peptides

 Numerous catalog peptides that can be easily synthesized in large quantities by our cosmetic peptide synthesis services

Scale-up capacity

• Capacity for synthesis of 'mg' to 'kg' quantities of cosmetic peptides

Cost-effective scaling capability

- Highly efficient scale-up technologies allow for bulk cosmetics
- Peptide synthesis at highly reasonable

Modification

• An extensive list of modifications options are available

High-quality & reproducibility

- Customized production reports
- Stringent quality control processes
- Crude to >98% purity

What are the Benefits of Cosmetic Peptides?

A. Internal Safety

Biocompatible substances are decomposed and released into the body in a short period of time when absorbed into the skin

B. Chemical Stability

Chemical bonds remain stable for long periods of time in harsh conditions

C. Cost Effectiveness

Cosmetic peptides are effective in small amounts, which leads to affordable prices

D. Skin Permeability

Low molecular weight molecules of less than 500 Da provides excellent skin permeability

History

2020

- 03. Renamed as WellPep Co., Ltd.
- 03. Contracted the CDA of new peptide materials supply (Gwangju Institute of Science and Technology)
- 01. Cosmetic brand launching 4



2019

- **12.** Selected as a Research and Business Development (R&BD) project by the Ministry of Trade, Industry, and Energy
- 12. Contracted the CDA of new peptide materials supply (Hanmi Pharm.Co.,Ltd.)
- 02. Partnership MOU between CosBioTech. and Hanlim Pharm Co., Ltd.
- 02. Acquisition of ISO-9001/ISO-14001 Certification (ICR)



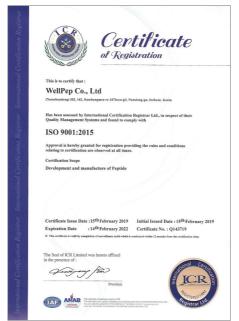
2018

- 12. Certified by Kibo Technology Fund as a Venture business
- 12. Established CosBioTech. affiliated research institute (KOITA)
- 07. Founded CosBioTech. Co., Ltd.



Certification

ISO 9001 ISO 14001



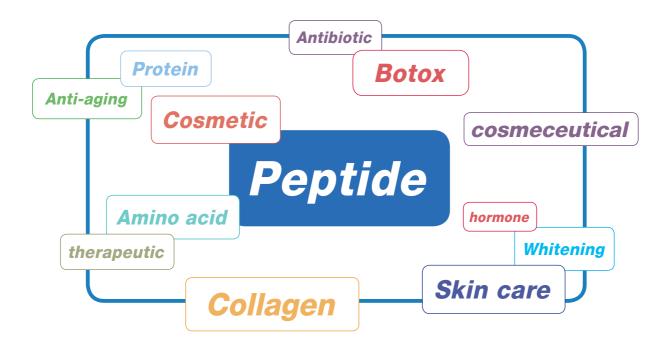


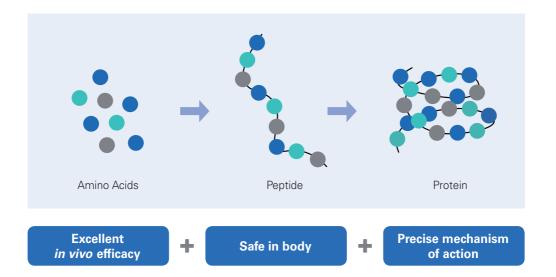
Certification of Venture Business





What is a Peptide?







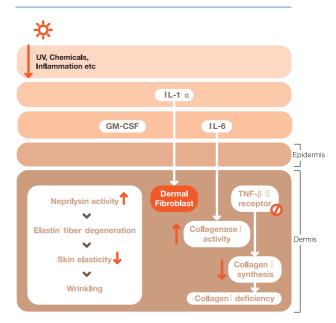
- Functional minimum unit of protein composed of 2 to 50 amino acids
- Strong activity and pharmacological action even in very small amount
- Used as a variety of biomaterials such as pharmaceutical and cosmetic materials

Funtional Machanism

Whitening

***** UV, Chemicals, Pigmentation Inflammation etc Keratinocyle Mast cell Keratinocyte Melanocyte Melanin Tyrosinase synthesis Tyrosinase activation Epidermis synthesis Melanogenesis Carbonylation Pigmentation

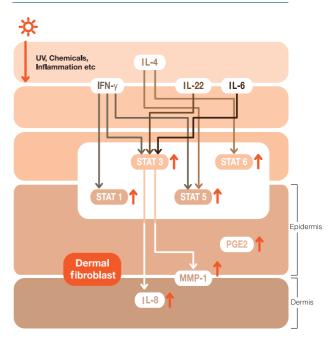
Anti-wrinkle



Anti-oxidation

-X-UV, UVB Mitochondrial Free radicals Reduction of deletion generation TGF-B receptor Cytoplasm Kinases activation NF-KB AP-1 Inflammatory MMP 1,3,9 Altered collagen neutrophils Nucleous Collagenase Reduction of collagen synthesis Collagen degradation Skin photoaging

Anti-inflammation



List of Cosmetic Peptides

O a da Nia	INOLNE	Category			
Code No.	INCI Name	Anti-aging	Eye care	Anti- pigmentation	Hair growth
WP-GCP-001	Acetyl Hexapeptide-1				•
WP-GCP-002	Acetyl Hexapeptide-8	•			
WP-GCP-003	Acetyl Tetrapeptide-11	•			
WP-GCP-004	Acetyl Tetrapeptide-2	•			
WP-GCP-005	Acetyl Tetrapeptide-3		•		•
WP-GCP-006	Acetyl Tetrapeptide-5	•	•		
WP-GCP-007	Acetyl Tetrapeptide-9	•			
WP-GCP-008	Carnosine	•			
WP-GCP-009	Copper tripeptide-1	•			•
WP-GCP-010	Dipeptide-2	•	•		
WP-GCP-011	Glutathione	•		•	
WP-GCP-012	Hexapeptide-9	•			
WP-GCP-013	Nonapeptide-1			•	
WP-GCP-014	Palmitoyl Pentapeptide-4	•			
WP-GCP-015	Palmitoyl Tetrapeptide-7	•	•		
WP-GCP-016	Palmitoyl Tripeptide-1	•	•		
WP-GCP-017	Palmitoyl Tripeptide-5	•			
WP-GCP-018	Hexapeptide-11	•	•		
WP-GCP-019	Pentapeptide-3	•			
WP-GCP-020	Tripeptide-1	•			
WP-GCP-021	Acetyl Octapeptide-3	•			
WP-GCP-022	Acetyl Hexapeptide-38	•			
WP-GCP-023	Biotinoyl Tripeptide-1				•
WP-GCP-024	Hexapeptide-2			•	
WP-GCP-025	Hexapeptide-10	•			
WP-GCP-026	Tetrapeptide-21	•			
WP-GCP-027	Tetrapeptide-30			•	
WP-GCP-028	Tripeptide-29	•			

Anti-wrinkle peptide

Palmitoyl Pentapeptide-4			
Synonyms	PalMitoyl Pentapeptide-3, Matrixyl (Palmitoyl Pentapeptide); Matrixyl (PALKTTKS)		
Efficacy	anti-wrinkle, anti-aging	III III III III III III III III III II	
Description	 used in facial and body care and eye repair products stimulates collagen I, III and VI fibronectin, elastin, glucosamnoglycans production. activates certain genes involved in the process of extracellular matrix renewal and cell proliferation. activates the neosynthesis of extracellular matrix macromolecules, providing good anti-wrinkle and anti-aging effects. 		

Palmitoyl Tripeptide-1			
Synonyms	Pal-GHK, Palmitoyl Oligopeptide		
Efficacy	anti-wrinkle, anti-aging	NH₂ J	
Description	stimulates collagen and gylcosaminoglycans synthesis decreases in wrinkle length and depth, and skin roughness		

Pentapeptide-3			
	Synonyms	Vialox	
	Efficacy	anti-wrinkle, anti-aging	H ₂ N \
	Description	 an intensive anti-wrinkle care, especially for the fighting against expression lines inhibits muscle contractions as competitive antagonist at the muscle-type nicotinic acetylcholine receptor. 	HN HH

Tripeptide-1		
Synonyms	GHK, Kollaren, Prezatide	H ₂ N
Efficacy	anti-aging, wound healing, skin remodeling	Train
Description	 inhibits collagen carbonyl formation. increases the firmness of the skin by activating the extracellular matrix proteins synthesis. encourages tissue renewal and restores the firmness of the skin. fights against the aging process and reduces the appearance of sagging skin, wrinkles of skin aging. 	H'N H OH

Anti-wrinkle peptide

wrinkles while plumping the lips.

Acetyl Tetra	apentide-2	
Synonyms	Peptigravity, Thymulen 4	
Efficacy	anti-aging, anti-wrinkle, hair care	ОН
Description	 a biomimetic peptide derived from the youth hormone, thymopoietin a key ingredient in cosmetic formulations to fight deficiencies in the skin immune system most commonly used as a skin conditioner, by soothing and nourishing the skin compensates for hormone loss in the skin, especially collagen, providing somewhat of a plumping effect to the skin. boost skin regeneration. 	COOH OH OH
Acetyl Octa	apeptide-3	
Synonyms	Acetyl-glu-glu-met-gln-arg-arg-ala-asp-amide	
Efficacy	anti-wrinkle, anti-aging	O OH O NH2 NH OH
Description	"Botox-like" peptide such as Argireline influences the muscle contraction process that results in a more relaxed and line-free face, especially around the forehead and the eyes. has water-binding properties that help to hydrate and smooth skin.	H ₂ C H ₃ C H ₄ C
Acetyl Hex	apeptide-38	
Synonyms	Adifyline	
Efficacy	anti-aging, collagen accumulation	o Voh
Description	stimulates peroxisome proliferator-activated receptor Gamma coactivator 1a(PGC-1a) expression, enhancing adipogenesis rate. leads to higher lipid accumulation and volume growth in the desired areas like breast and cheeks. stimulates peroxisome proliferator-activated receptor Gamma coactivator 1a(PGC-1a) expression, enhancing adipogenesis rate.	OH NH NH2
Hexapeption	de-10	
Synonyms	H-Ser-ile-lys-val-ala-val-OH, Serilesine	
Efficacy	anti-wrinkle, anti-aging, anti-sagging	NH ₂
Description	 a synthetic peptide containing Alanine, Isoleucine, Lysine, Serine and Valine residues increases the synthesis of laminin V and α6-integrin to promote cell binding, with extraordinary visible skin restructuring and firming abilities. promotes the rebuilding of collagens and helps reduce fine lines and pore size. a firming active that strengthens the dermo-epidermal junction. 	HO ————————————————————————————————————
Tetrapeption	le-21	
Synonyms	Gly-glu-lys-gly, GEKG, Tego pep 4-17	NILI
Efficacy	anti-aging, skin suppleness	NH ₂
Description	a four amino acid (Glycine – Glutamic acid – Lysine – Glycine) peptide that belongs to the group of signal peptides that mimic skin-protein breakdown products to trick the skin into creating some nice new skin proteins, such as collagen. shows superior collagen, hyaluronic acid and fibronectin (all nice and important skin elements) boosting activity, and can smooth and minimize all kinds of wrinkles.	H ₂ N N N N N N N N N N N N N N N N N N N
Tripeptide-	29	
Synonyms	Gly-pro-hyp, Collagen Peptide	
Efficacy	anti-aging, anti-wrinkle	ОН
Description	 a small, three-amino acid peptide (Glycine-Proline-Hydroxyproline) found naturally in our collagen structure the most common triplet in collagen, is the synthetic peptide consisting of glycine, proline and hydroxyproline dramatically increases collagen I and III, minimizing fine lines and wrinkles while plumping the lips 	O NOH

Skin-repairing peptide

Synonyms Dermican, Dermican LS 9837 Efficacy anti-aging, skin firmness & thickness • a synthetic peptide that helps visibly restore skin's natural support • palys a role in the stimulation of basement membrane polysaccharide (lumican) and the synthesis of collagen I. • promotes dermal remodeling and helps achieve compact and plump the skin effect. • creates a global restructuring of the skin matrix, which is clinically proven to improve skin thickness and firmness. ■ Acetyl Tetrapeptide-9 Synonyms • Description • a synthetic peptide that helps visibly restore skin's natural support • palys a role in the stimulation of basement membrane polysaccharide (lumican) and the synthesis of collagen I. • promotes dermal remodeling and helps achieve compact and plump the skin effect. • creates a global restructuring of the skin matrix, which is clinically proven to

Acetyl Tetrapeptide-11			
Synonyms	Syniorage, Synioragetm		
Efficacy	anti-wrinkle, anti-aging	~	
Description	"SENIOR" anti-age targeting the epidermis stimulates syndecan-1 synthesis, for a reinforcement of epidermal cohesion. improves the adhesion between epidermis and dermo-epidermal junction through collagen XVII.	A COH	

Carnosine		
Synonyms	Ignotine, Karnozzn, Karnozin	
Efficacy	anti-wrinkle, anti-aging, antioxidant	_
Description	blocks the nonenzymatic glycosylation and protein cross-linking process induced by reactive aldehydes. has anti-aging capabilities. possesses strong antioxidant and anti-inflammatory properties. is linked with improved muscle function and athletic performance.	H ₂ N OH N N H

Н	Hexapeptide-9			
S	ynonyms	Collagen peptide III		
Ef	fficacy	anti-aging, anti-wrinkle	ON -OH	
D	escription	 an anti-aging peptide clinically proven to help visibly reduce the length and depth of wrinkles rapidly decreases the appearance of skin wrinkles. enhances epidermal repair and dermal protein synthesis (collagen types I and III). improves the dermal-epidermal junction structure (laminin-5, integrins, collagen IV). stimulates epidermal differentiation markers (keratin, filaggrin). 	H ₂ N N N N N N N N N N N N N N N N N N N	

Hexapeptide-11			
Synonyms	CTK0A9800, L-Proline		
Efficacy	anti-aging, anti-wrinkle		
Description	induces the activity of extracellular MMPs(matrix metalloproteinases) and suppress cell migration. helps reduce wrinkles, combat skin-aging and improve the skin elasticity.	ну Н Н Д Д Д Д ОН	

Palmitoyl 7	Palmitoyl Tripeptide-5		
Synonyms	SYN-COLL, Palmitoyl Tripeptide-3, Pal-KVK		
Efficacy	wound healing, anti-wrinkle		
Description	 visibly reduces appearance of wrinkles in age-prone zones. minimizes the factors involved in the appearance of aging skin. rejuvenates and smoothens the skin's appearance. refines pore appearance. improves the look of skin firmness and elasticity and improves the appearance of skin texture. 	NH2 NH2 OH CH3	

Eyebag weakening peptide

Acetyl Tetrapeptide-5				
Synonyms	Acetyl Tetrapeptide, Depuffin			
Efficacy	anti-eyebag, anti-dark circle	N NH N NH		
Description	a synthetic peptide that has calming, smoothing, hydrating, and firmness-enhancing benefits when applied to skin inhibits glycation in the skin around the eyes.	OH OH		

Dipeptide-2	2	
Synonyms	L-valyl-L-tryptophan (VW), VW, Eyeliss, N-Valyltryptophan	
Efficacy	anti-eyebag, anti-dark circle, anti-aging	
Description	 Its structure resembles lipids found in the epidermis of the skin that help skin retain moisture. inhibits ACE(Angiotensin-converting Enzyme) that causes fluid retention and interferes with lymphatic drainage. good for skin condition and can help treat dark circles or puffiness around the eyes. can be used to create a multi-purpose anti-aging product. 	OH OH

Hair growth peptide

Acetyl Hexapeptide-1

Synonyms	Melitane, MelinOIL, Stellight	
Efficacy	anti-photoaging, tan accelerator	
Description	 a bio-α-MSH(melanocyte stimulating hormone) peptide analog activates the regulation of melanin synthesis, relating the protection of natural light and inflammatory regulator. stimulates hair pigmentation, darkens hair and reverses the gray hair process. helps repair DNA damage caused by UV exposure and reduce the skin erythema. 	H ₂ C HN NH ₂ NH ₃ C NH NH NH

Acetyl Tetrapeptide-3

Synonyms	Folixyl, Kollaren 6, Uxi hair growth peptide	
Efficacy	anti-hair loss, hair pigmentation	NH ₂
Description	 a stimulator of extracellular matrix proteins favoring a better hair anchoring derived from a signal peptide which has potent tissue protective properties stimulates tissue remodeling after the initial phase of wound healing and collagen production for better ECM integrity for an optimal hair follicle anchoring. 	NH ₂

Copper Tripeptide-1

Synonyms	GHK-Cu, Copper Peptide	
Efficacy	anti-aging, anti-wrinkle, skin renewal, hair growth, wound healing	H ₂ N—
Description	 promotes activation of wound healing, attraction of immune cells, antioxidant and anti-inflammatory effects, stimulation of collagen and glycosaminoglycan synthesis in skin fibroblasts. tightens the loose skin and improve the skin elasticity, clarity and firmness. reduces fine lines and deep wrinkles, and is widely used in reparative and anti-aging cosmetics. 	HN H H

Biotinoyl Tripeptide-1 Synonyms Biotin-GHK

Synonyms	Biotin-GHK	
Efficacy	nail and hair stronger	
Description	 a three amino acid peptide where the famous collagen fragment, Tripeptide-1, the GHK is combined with Biotin, the well-known supplement for stronger nails and hairs. helpful for reducing hair loss and for making the eyelashes appear longer, fuller, and stronger. promotes hair bulb keratinocyte proliferation and ensures optimal hair anchorage by stimulating the synthesis and organization of the adhesion molecules laminin 5 and collage IV. 	HN NH H O NH NH ₂

Anti-allergic / Anti-inflammatory peptide

Palmitoyl Tetrapeptide-7 Synonyms Palmitoyl Tetrapeptide-3, LIPOPEPTIDE; PAL-GQPR, Lipopeptide Efficacy anti-aging, anti-inflammatory, anti-allergy, eye care • suppresses the production of excess interleukins. • reduces problems with skin roughness, fine lines, thin skin and wrinkles. • helps treat rosacea. • reduces the appearance of uneven skin tones. • used to counteract skin slackening and to perk up and increase the firmness of the fragile skin area around eyes.

Skin whitening / Tanning peptide

Glutathione			
Synonyms	GSH, Tathion, Deltathione		
Efficacy	whitening, antioxident, anti-aging	HOOC NH2 H O	
Description	 a major endogenous antioxidant produced by the cells inhibits melanin production. prevents damage to important cellular components caused by reactive oxygen species such as free radicals, peroxides, lipid peroxides and heavy metals. weakens biochemical activity of melanocytes. 		

Nonapepti	Nonapeptide-1			
Synonyms	Melanostatine, Oxytocin Intermediate-nine Peptide			
Efficacy	skin radiance, skin brightening, anti-dark spot	H _N N NH		
Description	 a skin lightening peptide, derived from α-MSH (Alpha Melanocyte Stimulating Horome) prevents melanin synthesis and unwanted pigmentation. 			

Synonyms	Hexapeptide-2	
Efficacy	anti-pigmentation, whitening	NH_2
Description	 a synthetic peptide containing Alanine, histidine, lysine, phenylalanine and tryptophane hexapeptide a skin lightening peptide to brighten skin and even-out skin tone acts as an antagonist to α-MSH. induces a decrease in the melanin content in epidermal cells. 	HN NH ₂ NH

Tetrapeptio	Tetrapeptide-30		
Synonyms	PKEK		
Efficacy	anti-pigmentation, whitening		
Description	 a four amino acid peptide (Proline – Lysine – Glutamic Acid – Lysine; PKEK) whose main magic power is to fade hyperpigmentation and even out the skin tone. has a nice anti-inflammatory function that leads to a dual action in hindering the pigmentation process. acts as a tyrosinase inhibitor (the famous enzyme needed to create melanin), and it also blocks the transfer of the melanin up into the top layers of the skin. provides anti-inflammatory activity prevents melanin synthesis by preventing activation of the tyrosinase. This product can be applied in various types of whitening or spot corrective products. 	O OH H O H OH NH ₂ NH ₂	

Anti-wrinkle peptide

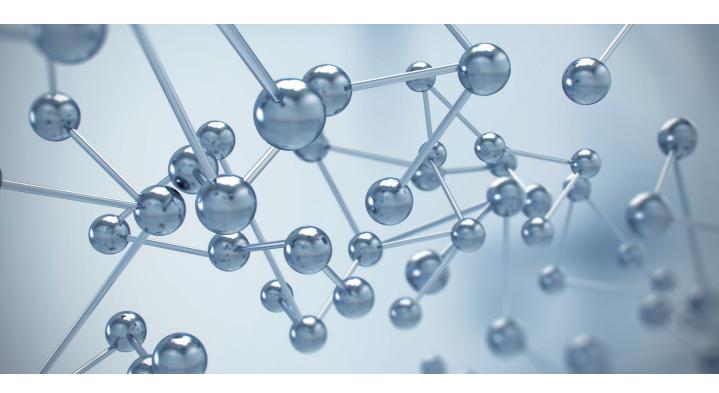
Skin-repairing peptide

Eyebag weakening peptide

Hair growth peptide

Anti-allergic / Anti-inflammatory peptide

Skin whitening / Tanning peptide



Custom peptides

Our peptide engineers are capable of optimizing your peptides by leveraging a vast degree of expertise in chemical peptide synthesis gained through our specialists and stringent quality standards. We also know that confidentiality is important to you and will treat your project and data with the utmost care and security.

SPECIFICATIONS

Length 2-60 amino acids.

Purity >95%, >90%, >85%, >70%, or crude. Tip: Purity is assessed by HPLC analysis, and indicates the % of the target peptide.

Quantity 1mg minimum to gram quantities (0.5mg available for specified modifications) Quantity can be delivered as gross weight or net weight,

Counter-Ion Default is TFA (Trifluoroacetic Acid) which binds to the peptide N-terminus, and to basic Lys, Arg and His residues. As TFA can be toxic to cells and animals, we also offer an AcOH or HCl salt exchange for an additional fee.

QC Testing MS Analysis, % Purity by HPLC, additional testing upon request, Water content, CHN Analysis Inquire for custom analysis

Documentation MS and HPLC chromatographs, technical data sheet,

Format Lyophilized powder, peptide in solution on request.

Shipping Ambient temperature.

Lead Time 3-5 weeks. Highly modified peptides may require longer production times.



Catalog peptides

Our catalog peptides represent the innovative peptide synthesis expertise. WellPep is able to provide peptides in inventory and ready for immediate shipment. Can't find a peptide? Please find it here in WellPep.

Our highly motivated team has extensive know-how in sequence design and modifications.

A strong commitment to quality is the basis of our catalog peptides. We have the capability to synthesize peptides from mg to kg scale, which enables us to supply you with the quantities needed when your project develops.

As a global peptide partner, we are collaborating with pharmaceutical, biotechnology, diagnostic, cosmetic companies and academia.



