



Acetyl Hexapeptide – 8

CAS: 616204-22-9



Active Peptide

General Introduction



- ❑ Established in 2013, Active Peptide Company is headquartered in Boston, USA. Its manufacturing center, Shandong Jitai Biotech Co.,Ltd is located at China National High-Tech Industrial Development Zone.
- ❑ We produce kilogram-scale batches of high purity peptides with patented technologies for cosmetic companies and distributors.
- ❑ We serve the world's most reputable customers in 28 countries and areas.

Why Buy Acetyl Hexapeptide-8 from Us?

- High Purity and Competitive Prices (due to our unique patented technology)
- Short Lead Time (we build stock for key customers at our Boston office)
- Recognized brand and quality (CIR Cited, see right)
- Environment Friendly (no chromatographic purification needed)
- Quality Consistence and Stability: (kilograms produced in each batch)
- Excellent Customer Services (see customer testimonials)

**Safety Assessment of
Acetyl Hexapeptide-8 and Acetyl Hexapeptide-8 Amide as Used
in Cosmetics**

Status: Scientific Literature Review for Public Comment
Release Date: January 15, 2020
Panel Date: March 16-17, 2020

All interested persons are provided 60 days from the above date (i.e., March 15, 2020) to comment on this safety assessment and to identify additional published data that should be included or provide unpublished data which can be made public and included. Information may be submitted without identifying the source or the trade name of the cosmetic product containing the ingredient. All unpublished data submitted in CIR will be discussed in open meeting, will be available at the CIR office for review by any interested party and may be cited in a peer-reviewed scientific journal. Please submit data, comments, or requests to the CIR Executive Director, Dr. Bart Holdren.

The 2020 Cosmetic Ingredient Review Expert Panel members are: Chair, Wilma F. Bergfeld, M.D., F.A.C.P.; Donald V. Belsito, M.D.; Curtis D. Klumpp, Ph.D.; Daniel C. Labber, Ph.D.; James G. Marks, Jr., M.D.; Lisa A. Peterson, Ph.D.; Ronald C. Shank, Ph.D.; Thomas J. Slaga, Ph.D.; and Paul W. Tropic, D.V.M., Ph.D. The CIR Executive Director is Bart Holdren, Ph.D. This report was prepared by Wilbur Johnson, Jr., M.S., Senior Scientific Analyst.

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Our Products

Pure Peptide Powder & Peptide Solution



Our Peptide Powder With Advanced Technology



- Anti-Wrinkle
- Hair Growth
- Eye Bag Reduction
- Skin Lightening and Elasticity
- Muscle Relaxation & Skin Comfort
- Skin Firming
- Lip Fullness
- Skin Moisturizing
- Whitening

INCI	Other Name	Cat. No.
■ Acetyl Hexapeptide-8	Argireline**	AP106003
■ ■ Copper Tripeptide-1	GHK-Cu 1:1	AP103002
■ ■ Bis(Tripeptide-1) Copper Acetate	GHK-Cu 2:1	AP103001
■ ■ Acetyl Dipeptide-1 Cetyl Ester	NATAH	AP102002
■ ■ Hexapeptide-11		AP106005
■ Dipeptide-2	VW	AP102001
■ Tripeptide-1	GHK	AP103008
■ ■ Palmitoyl Tripeptide-1	Pal-GHK	AP103005
■ ■ ■ Palmitoyl-Tripeptide-5 *	Pal-KVK	AP103006
■ Dipeptide Diaminobutyroyl * Benzylamide Diacetate		AP103011
■ Biotinoyl Tripeptide-1	Biotin-GHK	AP103010
■ ■ Palmitoyl Tetrapeptide-7	Pal-GQPR	AP104001
■ ■ Palmitoyl-Pentapeptide-4	Pal-KTTKS	AP105001
■ Nonapeptide-1 *		AP109001



* Research Use Only

** Product Trademark of Origin Company

Active Peptide's Acetyl Hexapeptide-8

INCI Name Acetyl Hexapeptide-8

CAS 616204-22-9

Sequence Ac-Glu-Glu-Met-Gln-Arg-Arg-NH₂

Specifications:

Appearance	<i>White Powder</i>
SKU No.	<i>AP106003</i>
Purity (by HPLC)	<i>> 98%</i>
Water (k.F)	<i>< 5%</i>
Molecular Formula	<i>C₃₄H₆₀N₁₄O₁₂S</i>
Storage	<i>2 ~ 8°C, dry and dark place</i>
Package	<i>Plastic bottles or glass bottles of varied sized, or customized packages based on special requests</i>



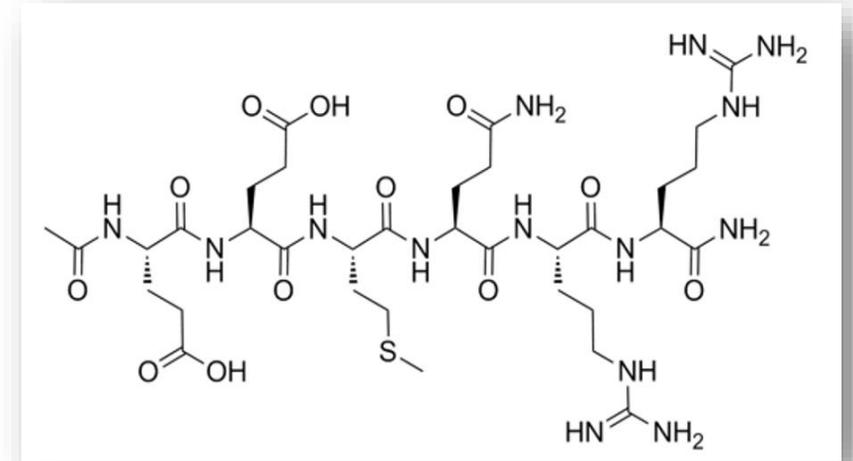
This product is pure powder with purity >98%. No excipients, preservatives, anti-oxidants present, or used during the manufacturing process. It is 100% synthesized in laboratory so not involved with plant, vegetable, or marine. It is neither palm derived nor sustainably sourced.

Acetyl Hexapeptide-8

General Introduction

The first anti-wrinkle hexapeptide with a Botulinum Toxin-like mechanism of action. It reduces the depth of the wrinkles on the face caused by the contraction of muscles of facial expression, especially in the forehead and around the eyes.

It is a safer, cheaper, and milder alternative to Botulinum Toxin, topically targeting the same wrinkle-formation mechanism in a very different way, with comparable efficacy but leaves aside the risks, the injections and the high cost.



Tips for Formulation

1. Avoid strong oxidation ingredients
2. Acetyl Hexapeptide-8 is very water soluble. We suggest taking it as the final step to add Acetyl Hexapeptide-8 to the solution. All process should be done under 40°C.
3. ARGIRELINE* Solution contain 0.5 g/L of the powder version. Dosage 3%-10%

* Trademarked of Origin Company

Acetyl Hexapeptide-8

In vitro Action Mechanism

- **Muscle contraction**

The neurotransmitter involved in muscle contraction is acetylcholine and it is released from a vesicle into the synapse. The SNARE protein complex is formed by three proteins: VAMP, Syntaxin and SNAP-25 and it is essential for neurotransmitter release at the synapse and mediates the final steps of exocytosis. This complex is like a cellular hook that captures vesicles and brings them close to the membrane to enable their fusion.

- **Botulinum Toxin A**

Botulinum Toxin A paralyzes the muscle by selectively blocking acetylcholine release at the neuromuscular junction. BoNT-A cleaves the protein SNAP-25 irreversibly, and therefore the SNARE complex cannot assemble. The nerve signal cannot be relayed, the muscle cannot contract and it is paralyzed.

- **Acetyl Hexapeptide-8**

It is a mimic of the N-terminal end of SNAP-25 and it competes with the natural protein for a position in the SNARE complex, so it destabilizes its formation, without breaking any of its components. If the SNARE complex is slightly destabilized, the vesicle cannot release neurotransmitters. As a consequence, muscle contraction is attenuated, and the muscle is relaxed.

Serving the World's Most Reputable Customers

Johnson & Johnson



Skin Biology
LOREN PICKART PhD Products Based on Real Published Science



kdc



BEAUTÉ PACIFIQUE

Active Peptide

Customer Profile

Dr. Loren Pickart, the Inventor of Copper Peptide, Uses Kilograms of Our Peptides in His Cosmeceutical Brand in His Cosmeceutical Brand

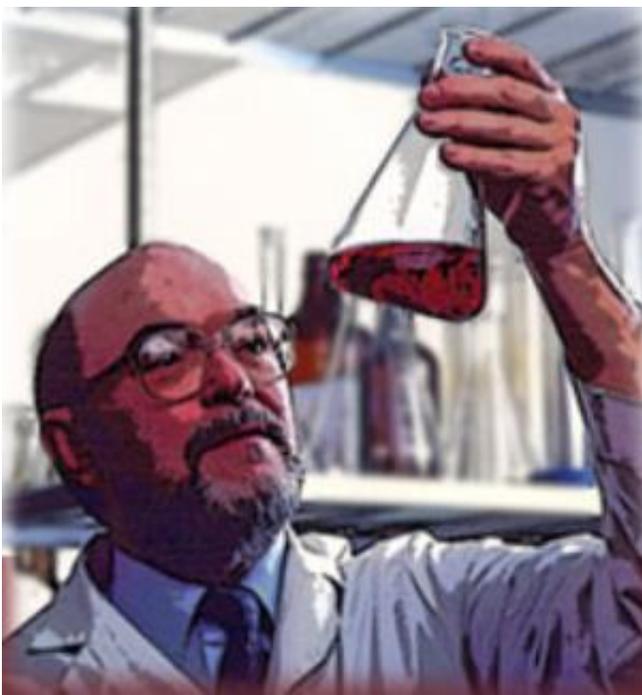
Skin Biology

LOREN PICKART PhD Products Based on Real Published Science



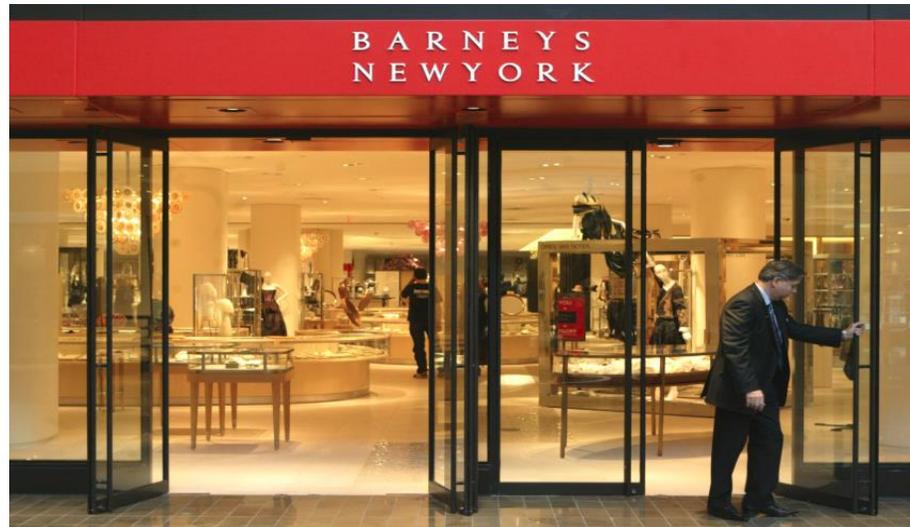
Copper peptide was Active Peptide's first product. After half a year of research and development from our team of PhDs, we successfully developed advanced technologies to produce kilograms of copper peptide in each batch.

We are particularly grateful to our company's first customer, the inventor of copper peptides, Dr. Loren Pickart. In the 1970's, Dr. Pickart invented copper peptides and became the world's most famous expert in copper peptide research. In the 1980 's, Dr. Pickart founded Procyte, the first company that applied peptides to skin care products. It later went public and was listed on Nasdaq. After the success with Procyte, Dr. Pickart and his wife established Skin Biology, another famous professional skin care company.



Customer Profile

Collaborating With

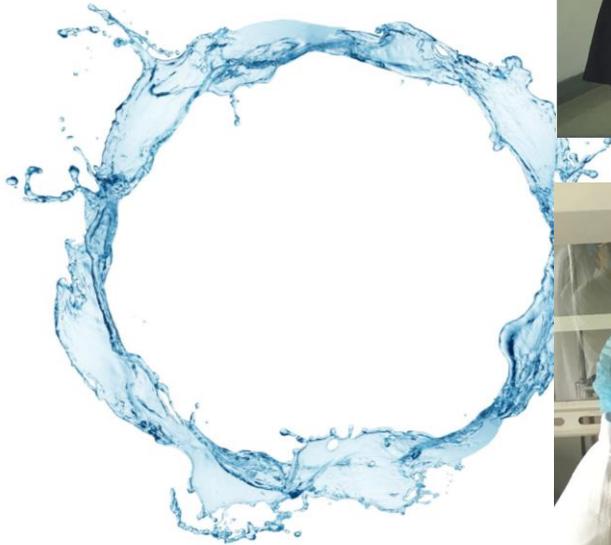


Successfully launched in Barneys New York, an American chain of luxury department stores In November 2017

Customer Profile

Passed Customer Audit from HYUNDAI IBT

One of The Largest Korean Cosmeceutical Companies' On-site Audit in 2017



Global Customer

Comments

(Excerpts from emails)



“ I do appreciate your effort and integrity. I'll likely get more in the near future.

- N. Bauer, CEO of Nyles7 at Arizona USA

“ Thank you ! LOVING the GHK-Cu, so glad you found me!

- N. Nivolo, CEO of NCN Professional SkinCare at Connecticut USA

“ I love to talk to you guys. You are very professional and knowledgeable.

- F. Priet, Researcher of JFA Ceuticals in India

“ The package reached to us so quickly!

- F. Jang, Scientist of Seoul National University, Korea

“ Thank you for your strong technical support and working so hard to help us!

- G. Floyd, Pole Cosmetique, Purchasing Manager, France

“ The Sample you provided was the best peptide our customers have ever seen!

- H. Cheng, CEO of Shanghai Ruidong Biotech, China

“ The issue was all solved. Thank you for working so hard to help us!

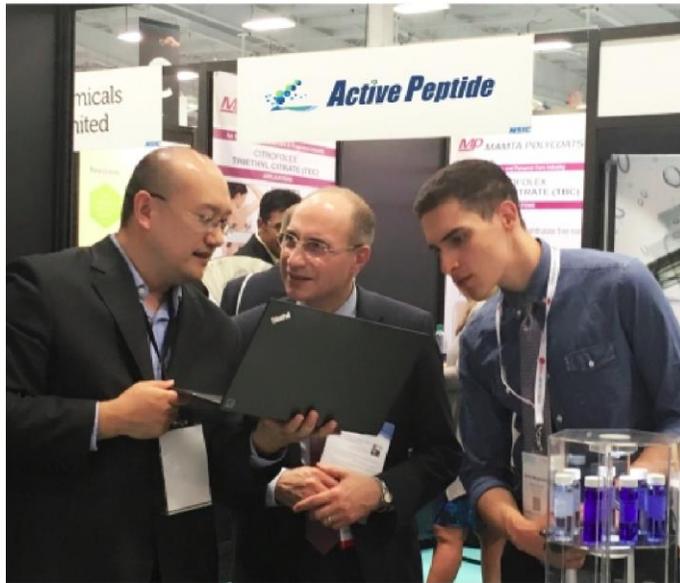
- J. Gottlieb of InnoCent International GmbH in Germany

“ Thank you for your excellent services. It was such a pleasure to do business with you!

- R. Cloete of DRA Pharmaceuticals, South Africa

Our Advanced Technology

Our Patented Liquid-phase synthesis Technologies for Producing Kilograms of Cosmetic Peptides



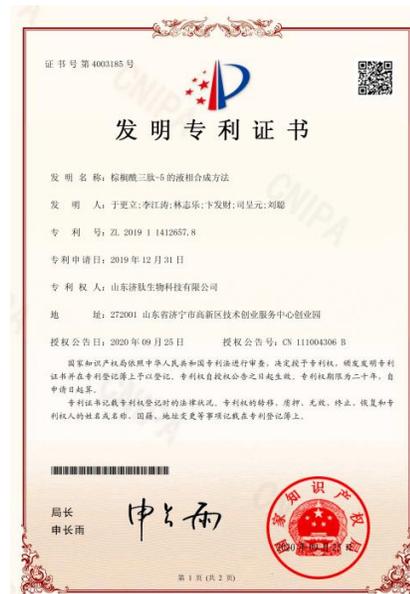
“

We have made a significant breakthrough in kilogram-scale production of high purity peptides. Our unique liquid-phase synthesis technology has the shortest synthetic routes and avoids using any chromatographic purification, which allows us to produce kilograms of pure peptides in a single batch. This process is much faster, more cost-efficient, and eco-friendly.

— Principal Scientist Dr. Lee Yu

Our Advanced Technology

Three National Invention Patents Granted for Company's Liquid-phase Technology in 2020



PATENTS



- [CN111004304B - Liquid phase synthesis method of biotin tripeptide-1 - Google Patents](#)
- [CN110950926B - Liquid phase synthesis method of snake venom-like tripeptide - Google Patents](#)
- [CN111004306B - Liquid phase synthesis method of palmitoyl tripeptide-5 - Google Patents](#)

Our Advanced Technology

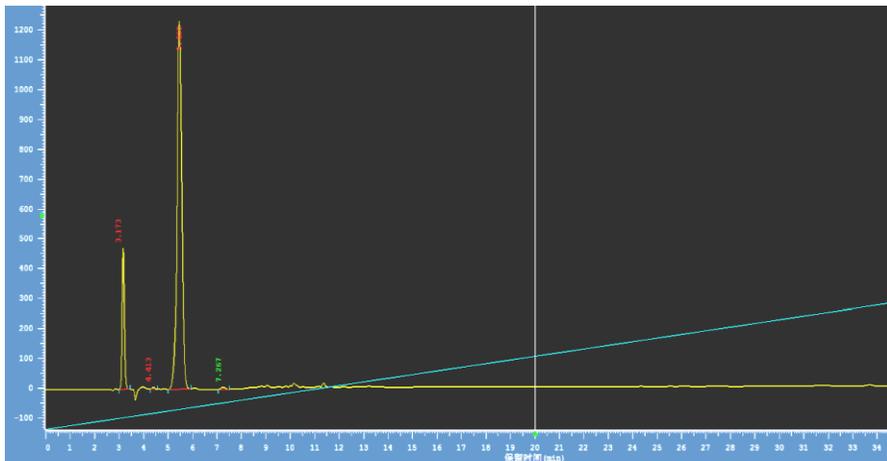
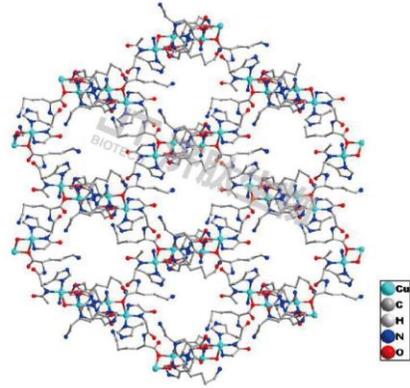
Example: GHK-Cu Copper Peptide



- **Other brands** of copper peptide powder are usually in powder form, due to the traditional production process of freeze-drying. It takes more time, steps, and resources to produce, so the production cost is high. The powder has a large surface area, which causes it to absorb humidity and stick to the wall of the bottle, making it harder to store and weigh.
- **Our brand** of copper peptide powder is in crystal format due to our patented liquid-phase synthetic method and crystallization technology. Because of this, our peptide is not prone to absorbing humidity from the air and does not stick to the wall of the bottle, which makes it easier to store and weigh.

Our Advanced Technology

Example GHK-Cu Copper Peptide



MICROCONSULT, INC. MICROBIOLOGICAL & ANALYTICAL TESTING LABORATORY	
3219 Cassamaker Dr., Suite 106, Carrollton, TX 75006 - Phone: 972.250.2902 - Toll Free: 888.226.7002 - Fax: 972.254.2903 - www.microconsult.com	
Certificate of Analysis	
Product Name:	GHK-Cu
Lot Number:	N/A
Lab Number:	CD038916
Analysis Date:	May 02, 2016
Analyst Name:	Carlos Parra, Carolyn Vercell
Methods:	CAM 216, CAM 475, CAM 77
Equipment Type:	HPLC, ICP, Karl Fischer
Sample Types:	Raw Material
Active	Test Results
Water Content	2.5%
Copper	6%
GHK-Cu	HPLC Area%: 100.0%; Impurities: 0.78%

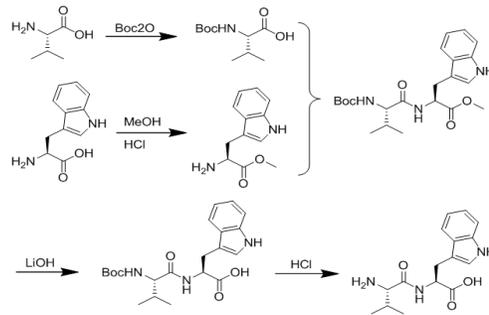
Our Advanced Technology

Example • Dipeptide-2 • Eye Bag Reduction

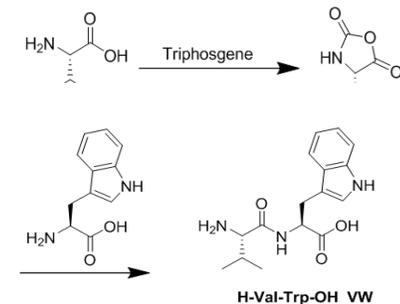
Traditional Method

Active Peptide Technology

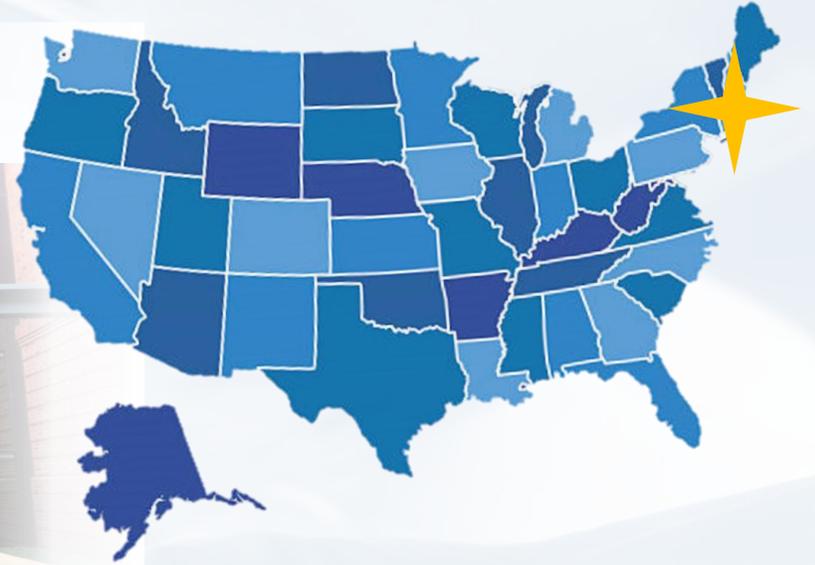
- **Five Steps**
- Limited Output in Each Batch
- High Production Cost
- Time Consuming
- More Waste



- Only **Two Steps** Needed
- Kilograms Produced in Each Batch
- Reduced Production Cost
- Significantly Shortened Lead Time
- Eco-friendly

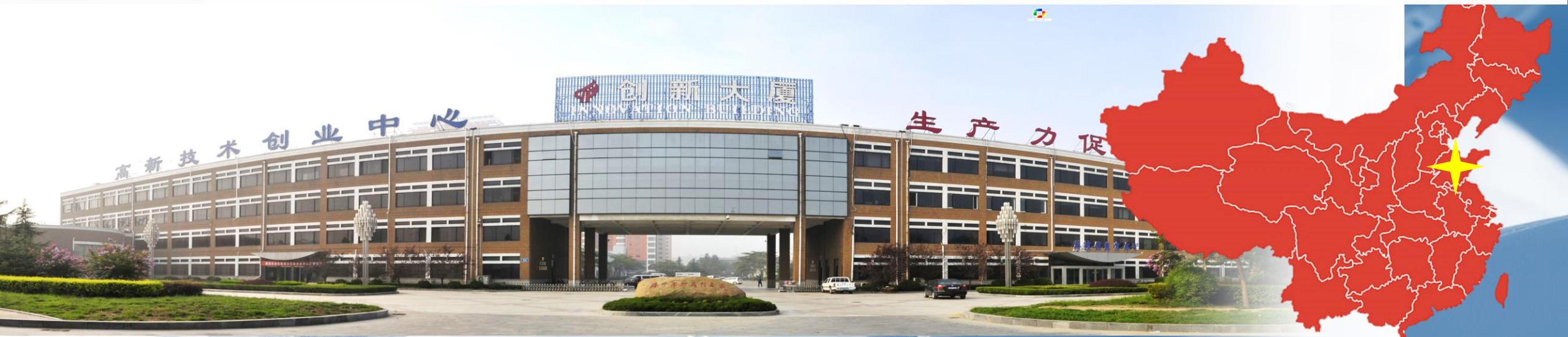


Customer Office in Boston, USA



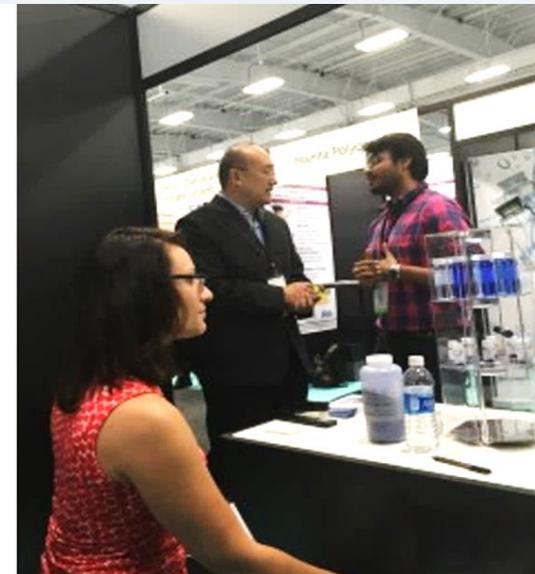
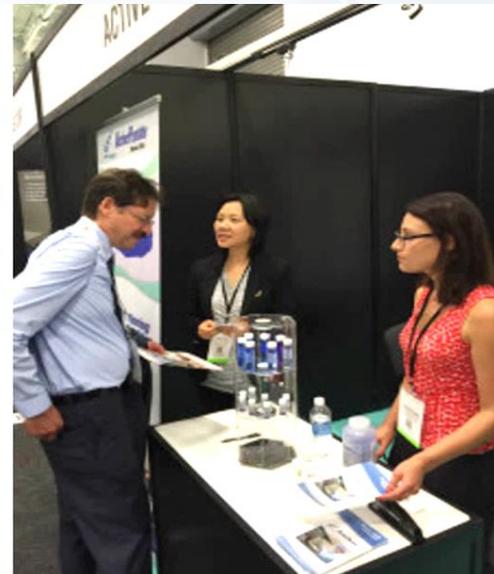
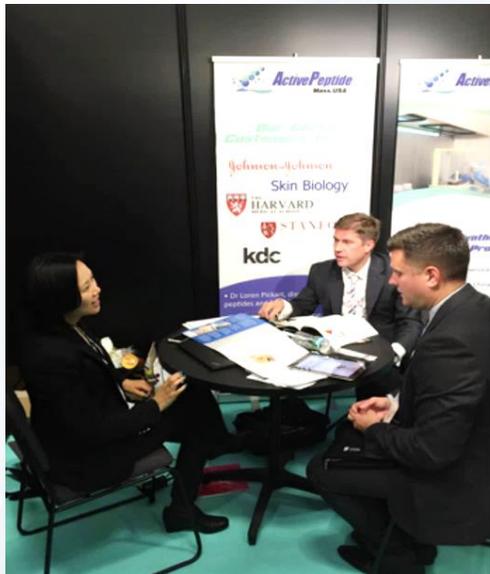
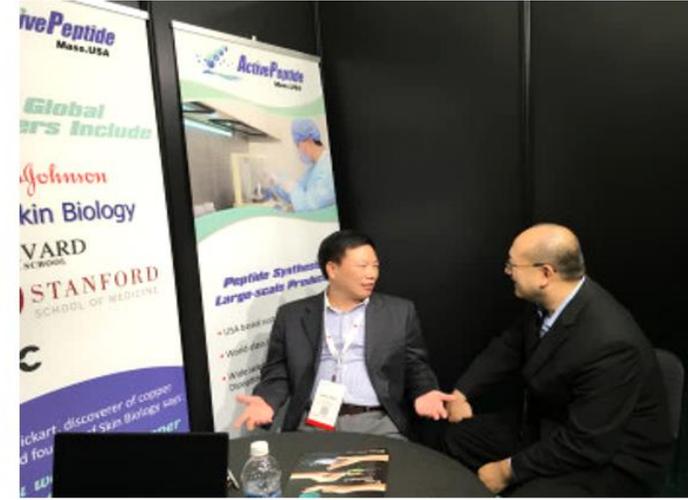
PhD Scientist Team Providing Technical Support, Global Customer Service, and Shipping

Manufacturing Facility in China National High-tech Zone



A 12,000 square-foot laboratory equipped with Advanced Instruments and Technology. Over one million dollars of funding from China High-tech Industrial Development Zone

Meeting Active Peptide at Exhibitions





**We are Committed to Becoming Your
Best Resource for Peptides!**

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