



HLB PEP

Synthesizing Therapeutic Future



Catalog
Peptides



Custom
Peptides



Generic
Peptides



CDMO

ISO 9001, 14001, 45001 | GMP Certificated

HLB PEP



Total Biomolecules Service System

Key Technology
Synthesis & Purification

Catalog Peptide
Strong R&D Support

Custom Peptide
Confidentiality

CDMO Service
Preclinical & Clinical & Commercial

Peptide for Industrial Use
Cosmetic & Food Ingredients

Peptide APIs
Generic

HLB PEP

SYNTHESIZING THERAPEUTIC FUTURE



Key Technology

HLB PEP supplies various types of high-quality peptides promptly by applying our optimal synthesis technology and extensive experiences in the peptide synthesis.

We manufacture high-quality custom-made peptides by applying our thorough product managing system (ISO 9001, 14001, 45001, GMP Certified) in the synthesis and purification of peptides, and we supply the peptides demanded by customers by applying custom-made synthesis and purifications according to the level of difficulty in the synthesis and types of modification.

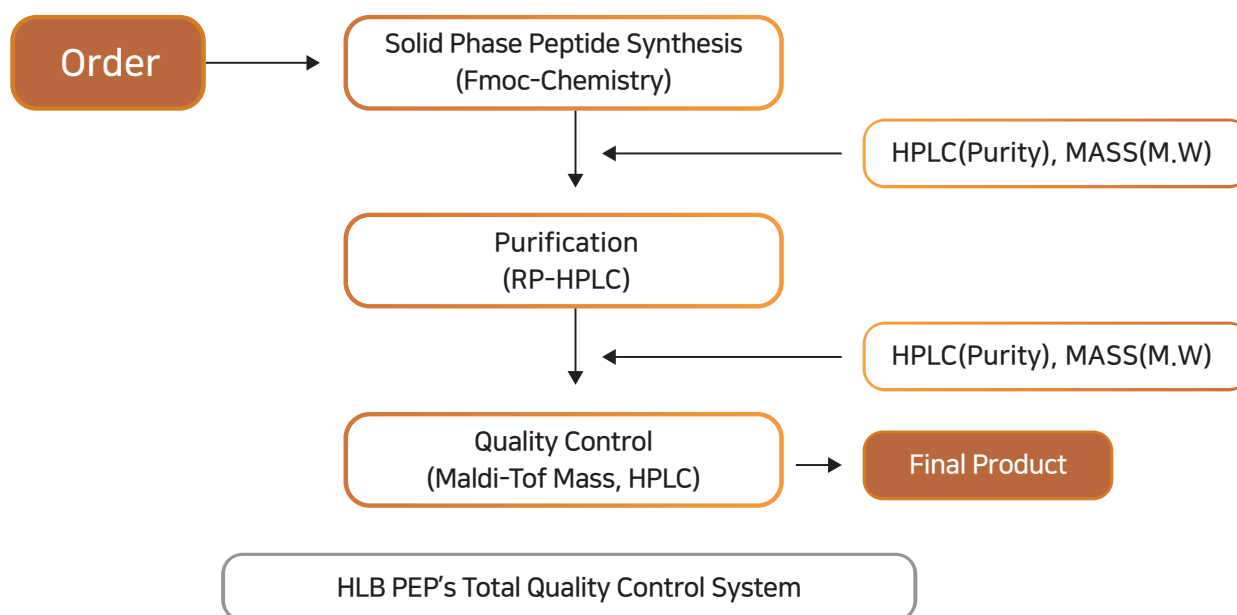


Custom Peptide Synthesis Service

HLB PEP Synthesizing Therapeutic Future



- We offer peptide synthesis with faithful value
- >80%, >95%, >98% purity grade
- mg ~ kg scale
- Academic, pharmaceutical and industrial use

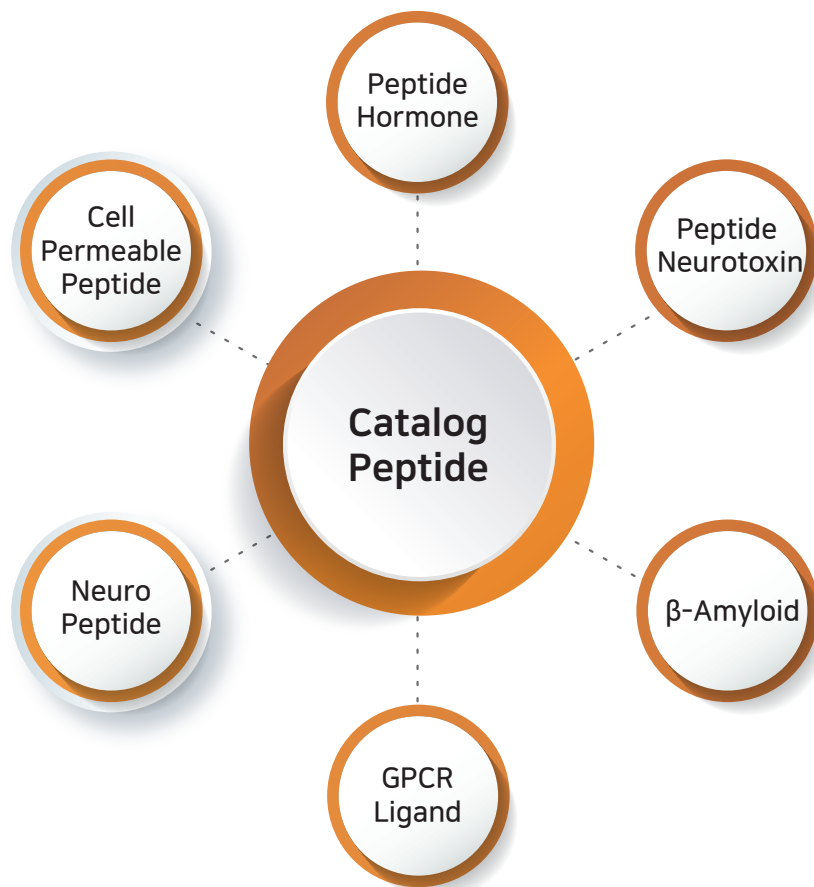


Modification

N-terminal	Side Chain	C-terminal
Acetylation/Biotinylation		Amidation
Fluorescence Dye (FITC/Cy3/Cy5 and its derivative)		Esterification
DNP (2,4-D-Niroanilide)		pNA (p-Niroanilide)
DabcyI/Dabsyl/Dancyl	Phosphorylation (Ser, Thr, Tyr)	AMC (Aminomethylcoumarin)
Fatty Acid	Disulfide Bonds	MAP (Multiple/Antigen peptide)
PEG	Cyclization	EDANS
KLH/BSA Conjugation to Antibody Production		

Catalog Peptide Service

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Cosmetic Peptide

Name	Function in cosmetic products
Acetyl Hexapeptide	Relaxes facial wrinkles, reducing the degree of existing wrinkles.
Palmitoyl Hexapeptide	Wrinkle prevention, wrinkle repair and eye contour care.
Palmitoyl Tetrapeptide	Anti-aging, wrinkle smoothing, and cutaneous barrier repair.
Palmitoyl Pentapeptide	Anti-wrinkle and collagen production stimulation.
Copper Tripeptide	Wound healing and revascularization of tissues.
Palmitoyl Tripeptide	Anti-aging and anti-wrinkle effects and cutaneous restructuring and repair.
Curcumin-Argireline	Wrinkle improvement, promotion of pro-collagen synthesis, acne skin suitability, skin moisturizing
Curcumin-GHK	Wrinkle improvement, promotion of pro-collagen synthesis, acne skin suitability, skin moisturizing

GMP Service

HLB PEP Synthesizing Therapeutic Future

GMP Bulk peptide: from ~g to ~kg scale

- Bulky-scale solid & solution phase synthesis
- Proportionately scaled HPLC purification
- Lyophilization
- Cleanrooms from class 100,000 to 10,000
- QA/QC and regulatory support
- Expertise in all production and purification techniques
- Dedication to quality and GMP compliance

Our standard GMP specifications include

- Appearance
- Solubility
- Identity (Via mass spectral analysis)
- Related substances (HPLC)
- Assay (as mass balance)
- Counter-ion contents
- Moisture content
- Peptide content (by N%)
- TFA content
- Chloride content
- Residual organic solvents
- Bioburden
- Endotoxin
- Other API-specific parameters

Generic Peptide APIs

Peptide Name	Application
Leuprorelin DMF, Ph. Eur, USP, USFDA #25878	Prostate cancer, Early puberty, Prevent premature ovulation for IVF
Desmopressin DMF, Ph. Eur, USP	Bed wetting
Ganirelix DMF, USFDA #040573	IVF by blocking a hormone that triggers egg release

Under Developing APIs

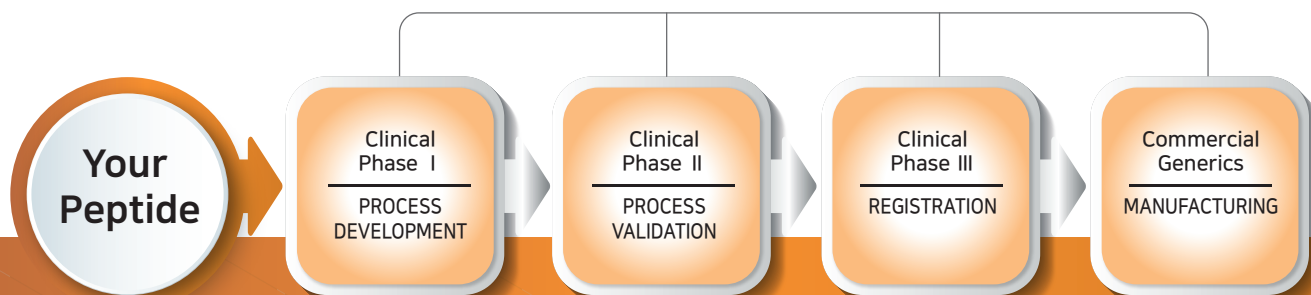
Peptide Name	Application
Vasopressin DMF scheduled for US FDA submission in 3Q 2026	Diabetes insipidus, Septic shock(increase blood pressure)
Taltirelin(Oral drug) DMF scheduled for PMDA submission in 4Q 2026	Spinocerebellar Degeneration
Triptorelin DMF scheduled for US FDA submission in 2027	Prostate cancer, Early puberty, Prevent premature ovulation of IVF

CDMO Service

HLB PEP Synthesizing Therapeutic Future

Looking for a partner to develop peptide drugs?

Peptide API development process



HLB PEP

Process Development & Validation

- Characterization
- Analytical Methods Validation
- Process Validation
- Working Standard Preparations
- Three Batches Validation

Registration & Manufacturing

- ICH Stability
- Regulatory Support
- CTD/DMF Preparation
- Commercial Manufacturing



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