With almost 50 years of expertise in peptide and small molecule synthesis, Bachem has an outstanding track record in large-scale manufacturing and excellent product quality.
# GENERIC PORTFOLIO

## PEPTIDE GENERIC APIs

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<td>Lanreotide</td>
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<td>(Arg³)-Vasopressin</td>
<td>DMF</td>
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## SMALL MOLECULE APIs

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<th>Site</th>
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## PIPELINE

<table>
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<th>Generic API</th>
<th>Application</th>
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<td>Degarelix*</td>
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<tr>
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<tr>
<td>Semaglutide*</td>
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</tr>
<tr>
<td>Teduglutide*</td>
<td>Short Bowel Syndrome</td>
</tr>
<tr>
<td>Tirzepatide*</td>
<td>Diabetes Mellitus</td>
</tr>
</tbody>
</table>

Please note: Some products may be restricted in certain countries.

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Bachem is the leading independent supplier of active pharmaceutical ingredients (APIs) for the human and veterinary pharmaceutical market. You can choose from our portfolio of generic APIs, which are produced in annual quantities of up to hundreds of kilograms and tons for commercial use.

«WE PROVIDE LONG TERM SUPPORT, GUIDANCE AND COMMITMENT TO OUR PARTNERS AND PROJECTS.»

- Large number of generic APIs
- Your reliable partner with outstanding experience in peptide chemistry
- Multi-kg scale cGMP peptide manufacturing facilities in Europe and in the US
- Large scale manufacturing capabilities for small molecule APIs
- Technical and regulatory support tailored to your needs
Our partners trust in the constant quality of our generic APIs for the manufacturing of their drug products.
Bachem facilities are located in Switzerland, the UK, and in the USA.

All cGMP manufacturing sites are inspected by the US-FDA and national authorities.
BACHEM DMFs FOR GENERIC APIs

Over 80 DMFs worldwide

Canada
USA
Europe
Asia
others
BACHEM’S PORTFOLIO of products and services...

**GENERIC APIs**
- peptide and small molecule generics
- supply of commercial quantities
- reputation for sustained quality & supply
- high-demand APIs available from stock
- close and long term partnerships

**NCEs**
- process development, optimization and validation
- comprehensive analytical services
- supply of cGMP material for all clinical phases
- cGMP-manufacturing of APIs for commercial supply
CATALOG PRODUCTS

- a large variety of products available online
- peptides, amino acids, inhibitors, substrates
- fast & easy ordering @ shop.bachem.com
- bulk quantities according to your needs
- excellent customer and technical support

CUSTOM SYNTHESIS

- from discovery stages to early clinical candidates
- strong focus on quality and timely execution
- development of synthetic routes for scale up
- best industry practice
- highly motivated and experienced team

...from R&D to commercial supply
Bachem’s quality management system covers the entire production process, from starting materials to production, packaging and delivery of the final product. Our partners trust in the constant quality of our generic APIs for the manufacturing of their drug products.

«Frankly speaking and without flattery, we have never experienced such a great level of perfection. Instead of describing all that we have seen or read about Bachem, it is much easier to state that we returned from our visit to Bachem with the highest level of admiration.»

Big Pharma Company

Regular audits by customers and authorities systematically verify our quality in terms of equipment, processes and products. Successful inspections by national authorities and more than 50 customer audits per year confirm our high quality standard and our compliance with the requirements for Good Manufacturing Practice (cGMP).
Bachem has established long-term contracts with important industrial partners, being a reliable, independent and financially solid company. Examples of long-term supply agreements on generic APIs are Goserelin to AstraZeneca (GB) and Triptorelin to Debiopharm (CH).


FULL RANGE

of technical and regulatory support

• We enable clients to meet the requirements of the authorities by providing comprehensive technical and regulatory information for filing.
• Our service includes the compilation of technical and regulatory documents and we offer support for regulatory requests.
• Through our expertise we enable clients to be the first to file their generic drugs in a highly competitive market.
«PROUD OF STRONG TRACK RECORDS IN THE SUCCESSFUL FILING OF APIs WORLDWIDE.»
PEPTIDE APIs
### ATOSIBAN

**DMF**

3-Mercaptopropinyl-D-Tyr(Et)-Ile-Thr-Asn-Cys-Pro-Orn-Gly-NH₂
(Disulfide bond)

**Synonyms**
(Deamino-Cys¹¹-D-Tyr(Et)²,Thr⁴,Orn⁸)-Oxytocin; RWJ 22164

**Fields of Application**
Premature labor

**Active Substance**
Atosiban is an oxytocin and vasopressin antagonist used as a tocolytic in the management of preterm labor.

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### BIVALIRUDIN

**DMF**

H-D-Phe-Pro-Arg-Pro-Gly-Gly-Gly-Asn-Gly-Asp-Phe-Glu-Glu-Ile-Pro-Glu-Glu-Tyr-Leu-OH
trifluoroacetate salt

**Synonyms**
BG 8967; Hirulog; Hirulog I

**Fields of Application**
Moderate to high risk acute coronary syndromes
Percutaneous coronary intervention

**Active Substance**
Bivalirudin is a hirudin analog acting as a specific and reversible direct thrombin inhibitor.

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### BUSERELIN

**DMF**

Pyr-His-Trp-Ser-Tyr-D-Ser(tBu)-Leu-Arg-Pro-NH₂ acetate salt

**Synonyms**
(Des-Gly¹⁰,D-Ser(tBu)⁶,Pro-NH⁺⁹)-LHRH

**Fields of Application**
Use in reproductive medicine
Advanced hormone-dependent prostate cancer
Endometriosis
Central precocious puberty
Uterine myoma

**Active Substance**
Buserelin is a potent LHRH agonist. After a transient increase, the continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.
**DESMOPRESSIN ACETATE CEP, DMF**

3-Mercaptopropionyl-Tyr-Phe-Gln-Asn-Cys-Pro-D-Arg-Gly-NH₂ acetate salt (Disulfide bond)

**Synonyms**
DDAVP; (Deamino-Cys¹,D-Arg⁸)-Vasopressin

**Fields of Application**
Nocturnal enuresis
central diabetes insipidus, polyuria, polydipsia
mild and moderate forms of hemophilia A and von Willebrand disease

**Active Substance**
Desmopressin is a synthetic analog of vasopressin with low vasopressor activity. Apart from its increasing effect on water resorption by the kidneys, it raises plasma levels of von Willebrand factor and factor VIII. In veterinary medicine, desmopressin is applied in the treatment of canine and feline diabetes insipidus.

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**EXENATIDE ACETATE DMF**

H-His-Gly-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Leu-Ser-Lys-Gln-Met-Glu-Glu-Glu-Ala-Val-Arg-Leu-Phe-Ile-Glu-Trp-Leu-Lys-Asn-Gly-Gly-Pro-Ser-Gly-Ala-Pro-Pro-Pro-NH₂ acetate salt

**Synonyms**
Exendin-4

**Fields of Application**
Diabetes II

**Active Substance**
Exendin-4 (exenatide), a 39-amino acid peptide originally isolated from the salivary glands of the Gila monster (Heloderma suspectum), differs from exendin-3 only in two positions close to the N-terminus. Application of exenatide causes an increase in acinar cAMP without stimulating amylase release. As an incretin mimic, exenatide acts as agonist of the glucagon-like peptide-1 (GLP-1) receptor. As GLP-1, though with prolonged activity, exenatide augments the postprandial production of insulin and suppresses secretion of glucagon. For this reason, exenatide has found use as a medication of diabetes II.

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**GLUCAGON DMF**


**Fields of Application**
Hypoglycemia (due to diabetes mellitus)

**Active Substance**
Glucagon opposes the action of insulin. It enhances the synthesis and mobilization of glucose in the liver.
**GONADORELIN ACETATE**
CEP, DMF

Pyr-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH₂ acetate salt

**Synonyms**
GnRH; Gonadotropin-releasing hormone; LHRH; Luteinizing hormone-releasing factor

**Fields of Application**
Ovarian follicular cysts (veterinary medicine)
Use in reproductive medicine
Diagnosis of the hypothalamic-pituitary-gonadal axis function
Cryptorchidism
Synchronization of ovulation (veterinary medicine)

**Active Substance**
Gonadorelin is also known as LHRH or GnRH. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.

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**GOSERELIN ACETATE**
CEP, DMF

Pyr-His-Trp-Ser-Tyr-D-Ser(tBu)-Leu-Arg-Pro-Azagly-NH₂ acetate salt

**Synonyms**
(D-Ser(tBu)⁶,Azagly¹⁰)-LHRH

**Fields of Application**
Advanced hormone-dependent prostate cancer
Advanced hormone-dependent breast cancer
Endometriosis
Uterine myoma
Use in reproductive medicine

**Active Substance**
Goserelin Acetate is a potent LHRH agonist. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.

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**ICATIBANT ACETATE**
DMF

H-D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-Oic-Arg-OH acetate salt

**Synonyms**
(D-Arg⁰,Hyp³,Thi⁵,D-Tic⁷,Oic⁸)-Bradykinin; HOE140

**Fields of Application**
Hereditary angioedema
ACE inhibitor-induced angioedema (off-label use)

**Active Substance**
Icatibant Acetate is a selective competitive antagonist for the bradykinin B2 receptor. It is indicated for the treatment of acute attacks of hereditary angioedema (HAE). HAE is a rare disorder resulting in periodic attacks of acute edema. It is characterized by a deficiency of functional C1 esterase inhibitor that leads to the overproduction of bradykinin, which triggers vasodilation, vascular permeability, and edema. Icatibant Acetate inhibits bradykinin from binding to the B2 receptor and thereby treats the clinical symptoms of an acute, episodic attack of HAE.
<table>
<thead>
<tr>
<th><strong>LANREOTIDE ACETATE</strong>&lt;br&gt;D MF</th>
<th><strong>LEUPROLIDE ACETATE</strong>&lt;br&gt;CEP, DMF</th>
<th><strong>OCTREOTIDE ACETATE</strong>&lt;br&gt;DMF</th>
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</thead>
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<tr>
<td><strong>H-D-2-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH₂ (Disulfide bond)</strong></td>
<td><strong>Pyr-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NH₂ acetate salt</strong></td>
<td><strong>H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-L-threoninol acetate salt (Disulfide bond)</strong></td>
</tr>
<tr>
<td><strong>Synonyms</strong>&lt;br&gt;Angiopeptin; BIM-23014; DC-13-116</td>
<td><strong>Synonyms</strong>&lt;br&gt;Leuprolelin; (Des-Gly⁹, D-Leu⁶, Pro-NH₂⁹)-LHRH</td>
<td><strong>Synonyms</strong>&lt;br&gt;SMS 201-995</td>
</tr>
<tr>
<td><strong>Fields of Application</strong>&lt;br&gt;Acromegaly&lt;br&gt;Carcinoid syndrome&lt;br&gt;Thyrotrophic adenomas</td>
<td><strong>Fields of Application</strong>&lt;br&gt;Advanced hormone-dependent prostate cancer&lt;br&gt;Advanced hormone-dependent breast cancer&lt;br&gt;Endometriosis&lt;br&gt;Uterine myoma&lt;br&gt;Central precocious puberty</td>
<td><strong>Fields of Application</strong>&lt;br&gt;Acromegaly&lt;br&gt;Carcinoid syndrome&lt;br&gt;VIPomas</td>
</tr>
<tr>
<td><strong>Active Substance</strong>&lt;br&gt;Lanreotide is a synthetic analog of somatostatin with properties similar to octreotide.</td>
<td><strong>Active Substance</strong>&lt;br&gt;Leuprolide Acetate is a potent LHRH agonist. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.</td>
<td><strong>Active Substance</strong>&lt;br&gt;Octreotide Acetate is a longer acting synthetic octapeptide analog of naturally occurring somatostatin. It inhibits the secretion of gastro-entero-pancreatic peptide hormones and the release of growth hormone.</td>
</tr>
</tbody>
</table>

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**LANREOTIDE ACETATE**

**HEX-H-2-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH₂ (Disulfide bond)**

**Synonyms**
Angiopeptin; BIM-23014; DC-13-116

**Fields of Application**
Acromegaly
Carcinoid syndrome
Thyrotrophic adenomas

**Active Substance**
Lanreotide is a synthetic analog of somatostatin with properties similar to octreotide.

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**LEUPROLIDE ACETATE**

**Pyr-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NH₂ acetate salt**

**Synonyms**
Leuprolelin; (Des-Gly⁹; D-Leu⁶; Pro-NH₂⁹)-LHRH

**Fields of Application**
Advanced hormone-dependent prostate cancer
Advanced hormone-dependent breast cancer
Endometriosis
Uterine myoma
Central precocious puberty

**Active Substance**
Leuprolide Acetate is a potent LHRH agonist. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.

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**OCTREOTIDE ACETATE**

**H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-L-threoninol acetate salt (Disulfide bond)**

**Synonyms**
SMS 201-995

**Fields of Application**
Acromegaly
Carcinoid syndrome
VIPomas

**Active Substance**
Octreotide Acetate is a longer acting synthetic octapeptide analog of naturally occurring somatostatin. It inhibits the secretion of gastro-entero-pancreatic peptide hormones and the release of growth hormone.
SOMATOSTATIN
CEP

H-Ala-Gly-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-Phe-Thr-Ser-Cys-OH acetate salt (Disulfide bond)

**Synonyms**
Somatostatin-14; SRIF-14

**Fields of Application**
Ulcer bleeding
Hemorrhagic gastritis
Postoperative pancreatic and duodenal fistulae
Variceal hemorrhage

**Active Substance**
Somatostatin is an inhibitor of growth hormone release from the anterior pituitary and suppresses the release of a variety of other hormones involved in the regulation of important physiological functions of the gastrointestinal tract.

TERIPARATIDE
ACETATE /
pTH (1-34) (HUMAN)
DMF

H-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro-OH acetate salt

**Synonyms**
Parathyroid hormone (1-34) (human)

**Fields of Application**
Osteoporosis - for synthetic peptide not yet an approved application

**Active Substance**
pTH (1-34) (human) Acetate administered in low dosage and intermittently stimulates bone formation.

TETRACOSACTIDE
DMF


**Synonyms**
Cosyntropin; Tetracosactrin; α₁²⁴-Corticotropin; ACTH (1-24)

**Fields of Application**
Investigation of adrenocortical insufficiency
Neurological diseases
Rheumatic diseases
Skin diseases
Diseases of the intestinal tract
Oncology

**Active Substance**
Tetracosactide is a synthetic peptide that corresponds to the first 24 amino acids of the naturally occurring hormone ACTH (adrenocorticotropic hormone). It stimulates the adrenal cortex to produce corticosteroids, mineralocorticoids, and, to a lesser extent, androgens. In veterinary medicine, tetracosactide (cosyntropin) is used as a diagnostic for detecting adrenal disorders in dogs, horses, and cats.
TRIPTORELIN ACETATE

Pyr-His-Trp-Ser-Tyr-D-Trp-Leu-Arg-Pro-Gly-NH₂ acetate salt

Synonyms
(D-Trp⁶)-LHRH

Fields of Application
Advanced hormone-dependent prostate cancer
Use in reproductive medicine
Endometriosis
Central precocious puberty

Active Substance
Triptorelin Acetate is a potent LHRH agonist. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.

TRIPTORELIN PAMOATE

Pyr-His-Trp-Ser-Tyr-D-Trp-Leu-Arg-Pro-Gly-NH₂ pamoate salt

Synonyms
(D-Trp⁶)-LHRH; Triptorelin Embonate

Fields of Application
Advanced hormone-dependent prostate cancer
Use in reproductive medicine

Active Substance
Triptorelin Pamoate is a potent LHRH agonist. After a transient increase, continuous administration results in downregulation of LH and FSH levels followed by a suppression of ovarian and testicular steroid biosynthesis.

(ARG⁸)-VASOPRESSIN

H-Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH₂ acetate salt (Disulfide bond)

Synonyms
Argipressin; AVP; Arginine Antidiuretic Hormone; Leiormone

Fields of Application
Central diabetes insipidus
Variceal bleeding
Vasoconstrictor in local anesthetic injections

Active Substance
(Arg⁸)-Vasopressin or argipressin is an antidiuretic peptide hormone that plays a key role in maintaining plasma osmolality. The peptide released from the posterior pituitary gland promotes renal tubular reabsorption of water. Argipressin is involved in the control of circadian rhythm, thermoregulation, and ACTH release in the brain.
SMALL MOLECULE APIs
**ANTAZOLINE HYDROCHLORIDE**

**Synonyms**
2-(N-Phenyl-N-benzyl-aminomethyl)imidazoline · HCl;
2-[(N-Benzylanilino)methyl]-2-imidazoline · HCl;
4,5-Dihydro-N-phenyl-N-(phenylmethyl)-1H-imidazole-2-methanamine · HCl

**Active Substance**
Antazoline Hydrochloride is an ethylenediamine derivative with antihistaminic properties and is used in conjunction with a vasoconstrictor for ocular allergies.

**Fields of Application**
Conjunctivitis

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**ANTAZOLINE PHOSPHATE**

**Synonyms**
2-(N-Phenyl-N-benzyl-aminomethyl)imidazoline · phosphate;
2-[(N-Benzylanilino)methyl]-2-imidazoline · phosphate;
4,5-Dihydro-N-phenyl-N-(phenylmethyl)-1H-imidazole-2-methanamine · phosphate

**Active Substance**
Antazoline Phosphate is an ethylenediamine derivative with antihistaminic properties and is used in conjunction with a vasoconstrictor for ocular allergies.

**Fields of Application**
Conjunctivitis

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**ANTAZOLINE SULFATE**

**Synonyms**
2-(N-Phenyl-N-benzyl-aminomethyl)imidazoline · sulfate;
2-[(N-Benzylanilino)methyl]-2-imidazoline · sulfate;
4,5-Dihydro-N-phenyl-N-(phenylmethyl)-1H-imidazole-2-methanamine · sulfate

**Active Substance**
Antazoline Sulfate is an ethylenediamine derivative with antihistaminic properties and is used in conjunction with a vasoconstrictor for ocular allergies.

**Fields of Application**
Conjunctivitis
CARBIDOPA
CEP, DMF

Synonyms
(S)-3-(3,4-Dihydroxyphenyl)-2-hydrazino-2-methylpropanoic acid · H₂O;
(S)-α-Hydrazino-3,4-dihydroxy-α-methylbenzenepropanoic acid monohydrate;
(-)-L-α-Hydrazino-3,4-dihydroxy-α-methylhydrocinnamic acid monohydrate;
α-Methyldopahydrazine monohydrate

Active Substance
Carbidopa, an aromatic L-amino acid decarboxylase inhibitor, which does not cross the blood-brain barrier, is routinely administered in combination with levodopa to patients with Parkinson’s disease to reduce the peripheral decarboxylation of levodopa to dopamine.

Fields of Application
Parkinson’s disease

ETOMIDATE
CEP, DMF

Synonyms
1-[(1R)-1-Phenylethyl]-1H-imidazole-5-carboxylic acid ethyl ester;
(+)-Ethyl 1-(α-methylbenzyl)-imidazole-5-carboxylate

Active Substance
Etomidate is a rapid, short acting intravenous anesthetic agent with no analgesic properties and a relative lack of significant hemodynamic and respiratory effects.

Fields of Application
Anesthesia

PROPOFOL
CEP, DMF

Synonyms
2,6-Bis(1-methylethyl)phenol;
2,6-Diisopropylphenol;
ICI 35868

Active Substance
Propofol is an intravenous, short acting anesthetic with rapid onset of action.

Fields of Application
Sedation
Anesthesia
We manufacture APIs with excellent batch-to-batch reproducibility. This guarantees consistent high quality and makes Bachem a reliable partner for you.
STRATEGIC MOVES REQUIRE STRATEGIC PARTNER SHIPS
**SITE CERTIFICATIONS**

**BACHEM AG**
- Development and manufacturing of active pharmaceutical ingredients (APIs)
- Registered with and inspected by the FDA, Swissmedic, and national authorities
- Licensed for the manufacture of APIs for the Japanese market
- Peptides and small organic molecules
- Manufacturing of catalog products
- Custom synthesis
- Production of peptides by solid-phase peptide synthesis (SPPS) and solution-phase chemistry

**BACHEM SA, SUCCURSALE DE VIONNAZ**
- Development and manufacturing of small-molecule active pharmaceutical ingredients (APIs)
- Registered with and inspected by the FDA, Swissmedic, and national authorities
- Licensed for the manufacture of APIs for the Japanese market
- Broad expertise in amino acid chemistry, chiral synthesis, metal catalysis, heterocyclic chemistry, enzymatic reactions, high-pressure reactions, electrochemistry, continuous flow technology
BACHEM AMERICAS, INC. (VISTA)

- Development and manufacturing of active pharmaceutical ingredients (APIs)
- Registered with and inspected by the FDA
- Custom synthesis
- Production of peptides by solid-phase peptide synthesis (SPPS) and solution-phase chemistry

BACHEM AMERICAS, INC. (TORRANCE)

- Development and manufacturing of active pharmaceutical ingredients (APIs)
- Registered with and inspected by the FDA
- Licensed for the manufacture of APIs for the Japanese market
- Manufacturing of catalog products and custom synthesis
- Production of peptides by solid-phase peptide synthesis (SPPS)

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