

## One-stop CDMO Services for Pharmaceuticals



Technology Driven



IP Protection



CRDMO Capability



One-stop Solution Provider



Powerful Production Capability



Global Quality Assurance System

### Allsino Pharmaceutical Co., Ltd.

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### Core Competencies

- Small Molecules
- Peptide Fragments

# Your reliable CDMO Partner for Small Molecules & Peptide Fragments.

## Our Services

### Process development

- Route design, development and optimization.
- Quality studies & analytical R&D.
- Process validation.
- Tech-transfer system.
- Process Safety Assessments.
- CMC registration support.
- ICH stability studies.

### Manufacturing

- From kg-lab and pilot to full commercial scale.
- Flexible reactor trains from 100L to 10,000L.
- GMP site inspected by NMPA & PMDA.
- Clean room grade D.
- Temperature range: -80 to 280°C.
- Licensed operations involving liquid ammonia, NaCN, NaN<sub>3</sub>, nitration and diazotization.
- Continuous improvement.

## Overview

 **20+**  
Years History

 **5200m<sup>2</sup>**  
R&D Center

 **97000m<sup>2</sup>**  
GMP Production Base

 **432**  
Reactors

 **450+**  
Completed &  
Ongoing Projects

 **11**  
Synthetic  
Workshops

 **5**  
Grade D Clean  
Areas

 **1425m<sup>3</sup>**  
Total Reaction  
Volume

## Our Technologies

### Peptides

- ◆ LPPS+SPPS
- ◆ Fragments (LPPS, ~ hundred kgs)
- ◆ Cyclic Peptides (g ~ kg)

### Asymmetric Synthesis

- ◆ Chiral catalysts / auxiliaries
- ◆ Bio-catalysts
- ◆ Chiral resolutions

### Hydrogenation

100 ~ 6000L  
1 ~ 15 MPa.

### Ammoniation

~10000L

### Organo-Metalation

- ◆ Main-group metals
- ◆ Transition metals

### Molecular Distillations

Maximum 12 m<sup>2</sup>  
100Pa ~ 300Pa, 140 °C

### Flow Chemistry + Photo Chemistry

Covering a full-wavelength range of  
250 ~ 800nm (~ tons)

### Process Safety Assessment

- ◆ Mettler DSC
- ◆ Mettler RC 1e
- ◆ THT ARC