



## **GENERAL CHEMISTRY**

ChemPartner has been a world leader in China-based outsourcing for synthetic chemistry for the last 15 years. We are one of the largest and most experienced Chemistry service organizations in China. Our Synthetic Chemists come from a wide range of backgrounds and experience and have designed and synthesized molecules for hundreds of pharmaceutical and biotechnology companies. In addition our management team comprises a mix of locally grown and internationally trained talent leading to a diverse company culture.

## **OUR SERVICES**

At ChemPartner, we offer two main service models for synthetic chemistry, the particulars of each model are shown below.

## **FULL TIME EQUIVALENT MODEL (FTE)**

- Dedicated full time employees
- Dedicated teams
- Flexibility to increase or decrease team size
- Flexibility to reprioritize targets/project direction
- Synthetic Chemistry Support, Medicinal Chemistry, and Blended Teams with San Francisco
- The FTE model ideal for projects where a significant degree of troubleshooting will be required

## FEE FOR SERVICE MODEL (FFS)

- Fixed price quoted for amount of specific synthesis of a molecule, series of molecules, or small library
- Fixed price quoted for a specific service, e.g. chiral separation, fragment-based screening.
- Literature precedent very important for accurate quotation
- Non-GMP Kilo scale-up available
- The FFS model ideal for projects with known or well understood chemistry

These models can be used individually or combined as best suits your individual projects needs.

# **SCOPE OF SERVICE**

At ChemPartner we offer a wide range of Synthetic Chemistry services and due to our size have experience in almost all areas of synthetic chemistry.

## **GENERAL SYNTHETIC CHEMISTRY**

- Large scale synthesis of intermediates or final compounds
- Synthetic troubleshooting and route optimization

## **MEDICINAL CHEMISTRY**

- Design of targets for SAR development
- Synthesis of targets for SAR study

#### **PEPTIDE CHEMISTRY**

- Automated Peptide synthesis and purification, macrocyclic, stapled, and complex peptides
- Synthesis of unnatural amino acid building blocks

## ANTIBODY DRUG CONJUGATES (ADC)

- Linker and toxin synthesis
- Conjugation provided by Biologics group

#### LIBRARY CHEMISTRY

Synthesis of targeted libraries

# **ANALYTICAL CHEMISTRY**



Our synthetic Chemistry teams are supported by dedicated teams of analytical chemists; these teams primarily support the analytical and purification requirements of the FTE and FFS teams. An extensive array of standard structural characterization techniques are available including; Mass spectroscopy, NMR, , FT-IR, UV, elemental analysis, counter-ion analysis. The following specialized services are also available and can be requested as needed.

#### **ANALYSIS AND PURIFICATION, AUTOMATION**

- HPLC with various detection techniques (UV/DAD/MS/ELSD/CAD)
- SFC chiral separation and method development
- Mass-directed autopurification

#### STRUCTURAL CHARACTERIZATIONS

- Mass spectroscopy: LC/MS, GC/MS, LC/MS/MS
- NMR: 1H-, 13C-, 19F-, 31P-, NOESY, DEPT, HSQC, HMQC

## PHYSICAL CHARACTERIZATIONS

- Physicochemical constant: pKa, logP/logD, melting point
- XRPD, TGA, DSC, DVS, particle size

## CHEMICAL CHARACTERIZATIONS AND GENERAL TESTING

- Purity, residual solvents, KF titration, Heavy metal, ROI, LOD
- HPLC, GC, LC/MS, GC/MS, titration, ion chromatography, atomic absorption
- HPLC/CLND, HPLC/FLD

