ChemPartner
Dedicated to LifeScience

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MEDICINAL CHEMISTRY

OUR SERVICES

Our talented scientists provide individualized medicinal chemistry design and support focused on your project needs and goals.

Our Medicinal Chemistry Leaders, based in Shanghai China and San Francisco USA, will work closely with your discovery teams to provide optimal support at each stage of the drug discovery process.

- Medicinal Chemistry Support (including synthetic route planning/optimization)
- Medicinal Chemistry Design (Hit Identification, Lead Identification, Lead Optimization, Pre-Clinical and Clinical Candidate Identification)
- Library Synthesis (Screening and Targeted Libraries)
- Fully Integrated Medicinal Chemistry Design Programs utilizing a Blended Model , with components of US and China-based support (including DMPK, in-vitro and in-vivo biological screening, structural biology support)
- Structure Based Drug Design (SBDD) and Fragment Based Drug Design (FBDD)
- Our design teams can work either in close partnership with your own internal groups or with complete autonomony.
- Intellectual Property (IP) is your most important asset, we have an efficient centralized prevention based approach to guarantee the security of your IP.

SCIENTIFIC EXPERIENCE

Our design chemists have strong experience collaborating with the other functional disciplines at ChemPartner and can provide a complete solution from initial discovery all the way through to Process Development.

Our Medicinal Chemistry teams are experienced in leading programs in a wide range of therapeutic areas and target types.

Therapeutic Areas Include:

- Pain & Inflammation
- CNS
- Oncology
- Infectious Disease
- Cardiovascular
- Metabolic Disease

Target Types Include:

- GPCR
- Ion Channels
- Nuclear Hormone Receptors
- Kinases
- Enzymes
- Transporters

EXPERIENCED SCIENTISTS

Our medicinal chemistry team has experience successfully executing on projects from all stages of discovery research (hit identification, lead identification, and lead optimization through to preclinical candidate selection).

In addition their background and experience (at least 10+ years in big pharma or biotech) covers the full spectrum of therapeutic areas and biological target types.

Our Medicinal Chemists are highly experienced in utilizing computational chemistry methods and are well versed in the latest software tools.

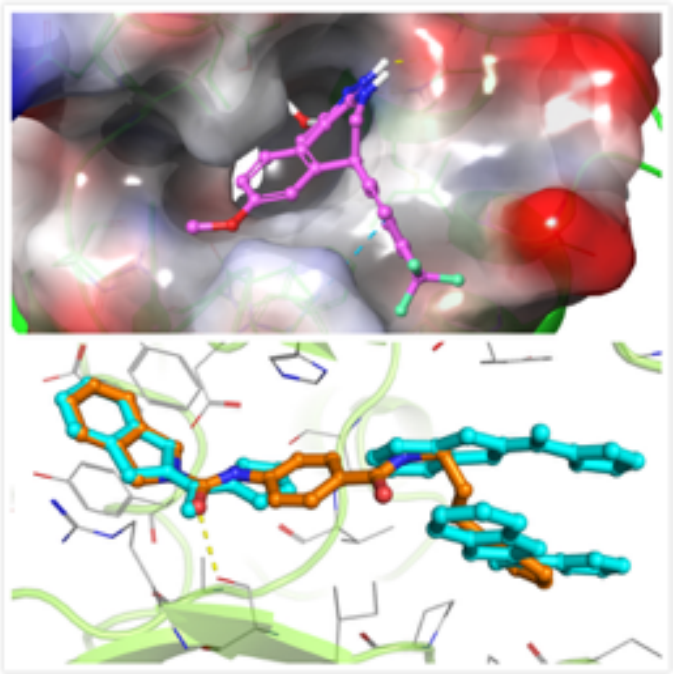
All of our medicinal chemistry leaders have a proven track record of designing and delivering preclinical candidate compounds. They are now applying this extensive knowledge and experience to our client's drug discovery programs.

In addition, ChemPartner scientists have been instrumental in advancing many of our clients programs into preclinical and clinical development as evidenced by Case Study examples that we are pleased to share.

STRUCTURE-BASED AND FRAGMENT-BASED DRUG DESIGN

STRUCTURE-BASED DRUG DESIGN

NOVEL COMPOUND DOCKED TO BROMODOMAIN TARGET



FRAGMENT-BASED SCREENING

LIGAND-BOUND CRYSTAL STRUCTURE OF NOVEL FRAGMENT SCREENING HIT FOR NAMPT
(overlaid with a known active)

To support our Medicinal Chemists we have a group of computational chemistry experts in both Shanghai and South San Francisco) with 40+ years' combined industry experience, 56 peer review articles, and 15 patent applications.

We have access to a wide variety of computational chemistry software and tools including MOE and Schrodinger suites of software.