

# Medicinal and Synthetic Chemistry

Bridging design and delivery with deep chemistry expertise

**For over 25 years, Sai Life Sciences has been a trusted partner in synthetic and medicinal chemistry. Our expertise spans a wide range of chemotypes and includes some of the most complex chemistries. We invite you to connect with us to explore how our focus on speed and innovation is driving therapeutic discovery across small molecules, peptides, and drug conjugates.**

## Highlights

- Over 300 discovery programs across medium & large pharma and start-ups
- 40+ programs advanced to Investigational New Drug Application (IND) filing & beyond
- Robust Intellectual Property (IP) protection
- Integrated platform for Computational Chemistry, Medicinal Chemistry, Biology services with DMPK and Toxicology
- SaiSynth: Integrated project management tool to track the flow of compounds and information for efficiently managing the DMTA programs
- Integrated automated compound management for sample preparation and compound storage

## Key Services

- Design and synthesis of NCEs to support hit to candidate discovery programs
- Design and synthesis of focused libraries with parallel medicinal chemistry
- Synthesis of reference compounds, metabolites and impurity markers
- Computer-aided drug design (CADD)
- Peptide Chemistry
- Scale up and discovery process chemistry
- TPD libraries and building blocks
- Analytical and purification services

## Infrastructure

- State of the art chemistry labs with modern equipment
- Ergonomically designed with efficient workflows
- In built Lean & 5S approaches
- Dedicated analytical support for each lab
- Easy access to related capabilities – HTE, Photoredox, Electrochemistry and Flow Chemistry

## Experience across wide range of chemistries

- Asymmetric synthesis Biotinylated/BODIPY/ Fluorescein labelled compounds
- Carbohydrates & Azasugars Chiral pool synthesis
- Drug conjugates for ADCs Heterocycles
- Isotope labelled ( $^{13}\text{C}$  &  $^2\text{D}$ ) synthesis Lipids & PEG-chemistry
- Macrocycles
- Natural products, Nucleosides & Nucleotides Peptides
- PROTACs
- Chemical probes Steroids



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