

Your Drug Discovery Partner for Medicinal Chemistry

ACCELERATE YOUR RESEARCH PROGRAM USING OUR COMPREHENSIVE SUITE OF *IN SILICO*, ARTIFICIAL INTELLIGENCE, AND MEDICINAL CHEMISTRY SERVICES

Southern Research offers all the relevant capabilities required to support drug discovery projects from target identification to IND submission and beyond.

Southern Research's medicinal and analytical chemists excel in pairing the most cutting-edge *in silico* and bioanalytical technology expertise with extensive drug discovery knowledge across multiple therapeutic areas to enable an informed choice of whether lead compounds can be developed into drugs.



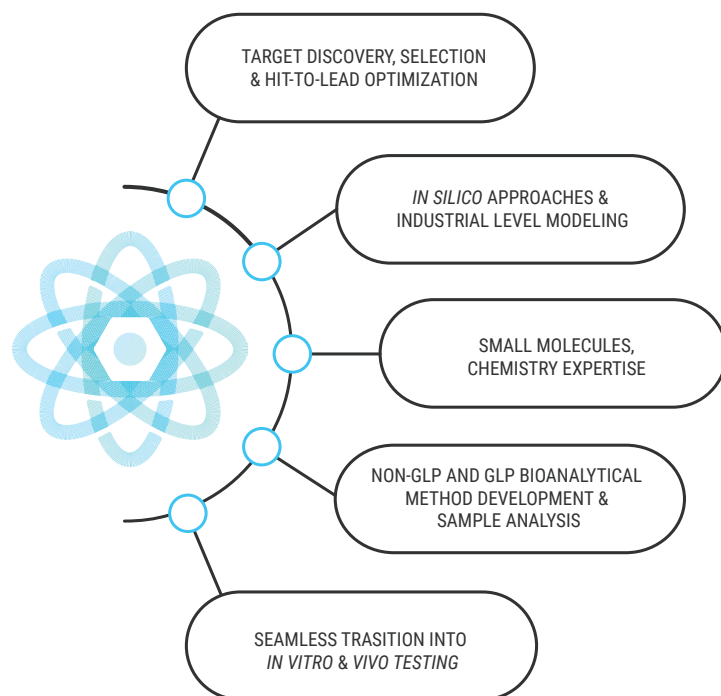
Our scientists provide the personalized attention and flexibility in collaboration that you would expect from a true partner.

OUR DRUG DISCOVERY CHEMISTRY SERVICES INCLUDE:

- Medicinal chemistry for any stage of your project, from hit validation to candidate selection
- Computational chemistry and modeling
- *In silico* drug discovery programs backed by multiple peer reviewed publications
- Chemistry consulting and proactive problem solving
- One-stop shop CRO for drug discovery chemistry challenges

Discuss your project with an expert
info@southernresearch.org

Our combination of experience, credentials, and direct partnership with senior personnel provides you with a well-established and informed study team that truly acts as an extension of your scientific development program and will guide you through the IND process.



Experts in Prodrug Discovery & Development

ACCELERATE YOUR RESEARCH PROGRAM USING OUR COMPREHENSIVE SUITE OF TECHNOLOGIES OPTIMIZED FOR PRODRUG-BASED TREATMENTS

For many years, Southern Research has had programs designed to develop nucleoside analogs for cancer and antiviral therapy which led to the discovery of Fludarabine-MP, Clofarabine, Aza-thio-deoxycytidine, Thiarabine and 5-I-4'-thio-deoxyuridine.

Southern Research's medicinal and analytical chemists excel in pairing the most cutting-edge *in silico* and bioanalytical technology expertise with extensive drug discovery knowledge across multiple therapeutic areas to advance your lead compound to market.

- » Application of prodrug approach, a technique that led to several FDA-approved drugs and preclinical candidates as anticancer/antiviral agents
- » Extensive experience in carbohydrate synthesis
- » Practical milligram to gram scale synthesis of nucleoside precursors for prodrug approach
- » Development of new phosphoramidate and phosphonate pro-moieties
- » Considerable expertise in synthesis and optimization of ProTide analogs

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