



Medical Chemistry Research Outsourcing Services

Our medical chemistry research outsourcing services support novel drug discovery, compound optimization, and chemical safety testing through cutting-edge synthesis, analysis, and pharmacological evaluation.

Our Medical Chemistry Research Capabilities

Our medicinal chemists and analytical scientists use advanced synthetic routes, spectroscopy, and bioassays to develop, refine, and validate drug-like molecules for therapeutic applications.

Types of Medical Chemistry Research We Handle

- Drug Molecule Synthesis
- Medicinal Compound Design
- Lead Optimization Studies
- Structure-Activity Relationship (SAR) Analysis
- ADME Profiling (Absorption, Distribution, Metabolism, Excretion)
- Pharmacokinetic (PK) Studies
- Pharmacodynamic (PD) Evaluations
- Chemical Toxicology Studies
- Metabolite Identification
- Prodrug Design and Synthesis
- Chiral Compound Separation
- High-Throughput Screening Support
- Bioisosteric Replacement Strategies
- Fragment-Based Drug Design
- Peptide and Small Molecule Synthesis
- NMR Spectroscopy and Analysis
- Mass Spectrometry Profiling
- HPLC Method Development
- LC-MS/MS Quantification
- Impurity Profiling and Control
- Stability Studies
- In Silico Drug Design Support
- Computational Chemistry Assistance
- QSAR Modeling

- Analytical Method Validation
- Regulatory-Compliant Chemistry Reports
- Publication-Ready Chemistry Data
- Intellectual Property Support
- Technology Transfer Packages
- Custom Medical Chemistry Projects

Key Research Outsourcing Services Offered

- Target Identification and Compound Selection
- Custom Synthesis of Reference Standards
- Lead Compound Development and Optimization
- SAR and QSAR Data Analysis
- ADME and Toxicokinetics Profiling
- Bioanalytical Assay Development
- Method Development and Validation (HPLC, LC-MS/MS)
- Spectroscopy and Chromatography Services
- Metabolite Identification Studies
- In Vitro and In Vivo Bioavailability Testing
- Preformulation and Stability Assessment
- Impurity and Degradation Profiling
- Data Analysis and Statistical Validation
- Regulatory-Compliant Documentation
- Confidential Data Handling and NDA
- Periodic Progress Reports
- Stakeholder Presentation Preparation
- Publication-Ready Figures and Reports
- Workshops and Training in Medicinal Chemistry
- Post-Project Technical Consulting
- Patent and IP Filing Assistance
- Grant Proposal and Manuscript Support
- Custom Compound Library Development
- Sample Archiving and Secure Backup
- Compliance with GMP and ISO Standards
- Cross-Functional Drug Discovery Collaboration
- Technology Transfer Support
- Integration with Clinical Research
- Long-Term Research Partnerships
- Custom Regulatory Submissions

Why Choose Us for Medical Chemistry Research Outsourcing?

Our medical chemistry experts deliver high-quality compounds, robust analytical data, and compliance-ready reports to accelerate your drug discovery and development pipeline.

Industries & Sectors We Serve

- Pharmaceutical and Biotech Companies
- Contract Research Organizations (CROs)
- Academic Drug Discovery Labs
- Chemical and Analytical Testing Companies
- Regulatory and Compliance Agencies
- Clinical Trial and CRO Services

Customized Medical Chemistry Solutions

We tailor synthesis pathways, bioassay protocols, and analytical workflows to match your lead molecule profile, therapeutic indication, and regulatory milestones.

Quality Assurance & Regulatory Compliance

Our lab practices follow ISO, GLP, and GMP standards, delivering reproducible, audit-ready data and reports for submission to global regulatory authorities.

Case Studies & Client Success Stories

See how our medical chemistry outsourcing has supported novel drug synthesis, improved pharmacokinetics, and reduced time-to-market for top pharma brands. References available upon request.

How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define compound class, target profile, and synthesis goals.
2. **Proposal & Quotation:** Provide detailed plan, cost estimate, and project timeline.
3. **Lab Execution:** Perform synthesis, purification, bioassay, and validation tests.
4. **Data Reporting:** Deliver compound profiles, analytical data, and compliance-ready documents.
5. **Post-Project Support:** Offer IP support, tech transfer, and regulatory submission guidance.

Frequently Asked Questions (FAQs)

Q: Do you support custom compound synthesis?

A: Yes — we design, synthesize, and validate small molecules to your exact specs.

Q: Can you help with ADME profiling and toxicology?

A: Absolutely — we run in vitro and in vivo ADME-Tox studies with robust reports.

Q: How secure is my data and IP?

A: Strict NDAs, encrypted storage, and industry-grade security protect your proprietary data.

Get Started / Request a Quote

Contact us today to discuss your medical chemistry research project and receive a tailored plan, cost estimate, and timeline aligned with your drug discovery goals.

Contact Us

Email: research-outsourcing@nthrys.com

Phone: +91-8977624748