

EMPOWERING DISCOVERY ACCELERATING SOLUTIONS

Early stage drug discovery

Target identification & validation

Late stage drug discovery

Antibody discovery
and engineering

Custom reagents

Assay services & solutions



Passion. Innovation. Life.



ENZENE AT A GLANCE

At Enzene, we pride ourselves on our technical expertise, flexibility, and bespoke solutions. The comprehensive range of fully integrated services is designed to meet the unique needs of each client across the entire product lifecycle, from early-stage discovery to commercial manufacturing. Our services support the development and manufacturing of high-quality biopharmaceuticals in a timely and cost-effective manner to maximize accessibility.



DISCOVERY AT ENZENE

Target identification and validation:

- Target biology
- Gene/protein expression
- Cellular signaling pathway
- Genetic evidence
- Knockdown studies
- Pharmacological evidence & preclinical studies
- Druggability assessment
- Clinical human POC
- Off-target effects



Antibody discovery and engineering:

- Multi-pronged approach to Ab discovery: Leveraging diverse strategies for optimal results
- Synthetically designed libraries
- Phage / yeast display for Ab discovery, sequence optimization, affinity maturation
- Hybridoma approach (animal immunization or patient-derived B-cells)
- Custom library development using display technologies
- Comprehensive biochemical & functional screening for lead candidate identification
- Robust developability assessment for lead candidates

Assay services & solutions:

- Biomarker discovery, screening and characterization
- In vitro immunogenicity assessment
- Immunogenicity, pharmacokinetics and pharmacodynamics (PK/PD)
- Autoantibody detection (ADA)
- Genomic and transcriptomic assays
- Cytokine and growth factor profiling
- Immunophenotyping
- Effector function assays
- Fragment-based and/or small molecule screening assays
- Custom assay development
- Data analysis and interpretation

Custom reagents: Precision-engineered to enhance your research outcomes:

- High quality mg-to-gm scale protein reagents
 - Multi-host expression platform: Mammalian (CHO, HEK), microbial, insect
 - Fast track turn around: As low as 2 weeks from gene to protein
 - Cell characterized proteins: Comprehensive analytical capabilities
 - Specialized workflows: In situ biotinylation
- Advanced modalities
 - AAV plasmids and vector design
 - Exosome isolation and characterization
 - Custom molecular biology for generating CAR-T constructs
 - Support for cell & gene therapy process flows
- Synthetic peptides: From impurities to therapeutic grade AAV plasmids and vector design
 - Solution-based and solid-phase synthesis capabilities
 - Synthetic peptides (up to 40-50 aa)
 - 5 mg – to – 100 gram scale (research grade)
 - Simple to complex: Various modifications (cyclic, disulfide bridges, branched, PEGylated)
 - Additional modifications (biotinylation, acetylation, amidation)
 - Green chemistry approaches
 - Process development for therapeutic peptides
 - Off-the-shelf R&D grade impurities available for therapeutic peptides (Liraglutide, Semaglutide, Tirzepatide)



Ready to bring your next molecule to life?

Contact us today and DISCOVER how ENZENE can help you:
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