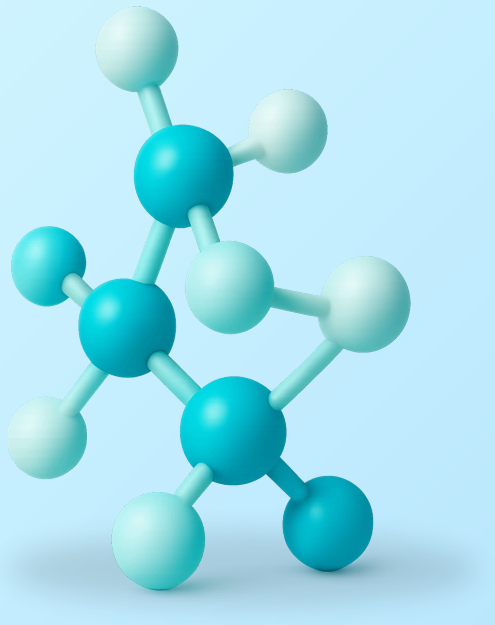
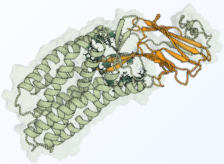
MedGraph Topaaz™

AI-Powered De Novo Design Platform for Next-Gen Molecule Discovery



Precision Discovery | Scientifically Grounded | Experimentally Relevant



Generative Design

AI-driven compound generation using curated fragment libraries to build novel, target-specific scaffolds

AI-Driven Optimization

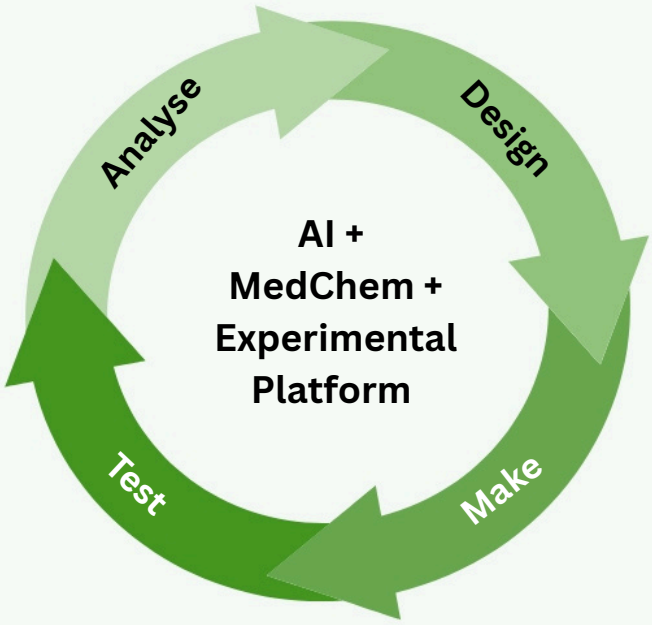
Refines molecules for ADME, efficacy, safety and synthetic feasibility using reinforcement learning

AI+Physics Screening

Ranks drug-like candidates through docking, AI-driven scoring and FEP-based binding affinity scoring

Workflow Snapshot

- Define a target structure or desired pharmacological profile
- Generate candidate molecules using fragment-based *de novo* design
- Optimize structures using reinforcement learning for drug-like properties
- Validate candidates via proprietary docking, ADME modeling & FEP scoring
- Receive a ranked list of optimized, synthesis-ready compounds



AI meets chemistry to unlock breakthrough candidates

MEDVOLT

Contact Us

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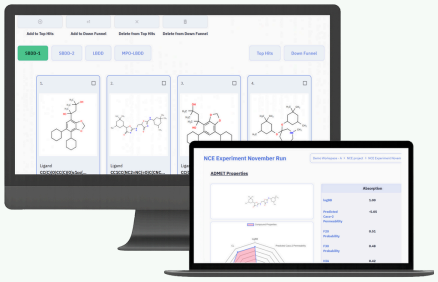
Applications of MedGraph Topaaz™

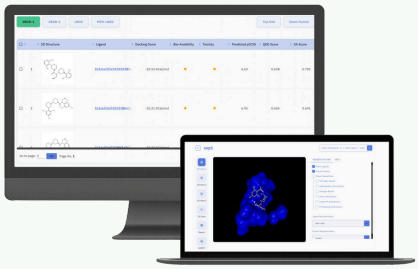
1. Design and prioritize novel scaffolds using AI for known or emerging targets
2. Optimize hits for ADME and PK endpoints or toxicity profiles
3. Explore tractable chemical space for low-druggability targets
4. Accelerate Lead ID using medchem driven design and validation

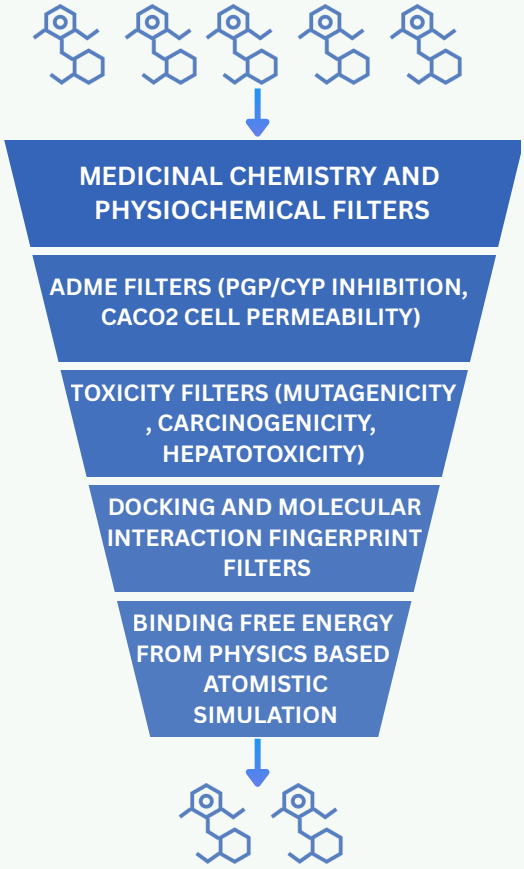
Why Choose MedGraph - Topaaz™

Revolutionizing Drug Discovery with Generative AI

- **End-to-end AI-powered molecule design**: From ideation to preclinical candidate in a single pipeline
- **Hybrid approach: Generative AI + FEP**: Combines creativity and precision for confident decision-making
- **High scalability and secure deployment**: Available as cloud, on-premise or hybrid deployment
- **Customization for every program**: Define ADME, novelty, selectivity and synthetic feasibility criteria
- **Rapid turnaround and modular access**: Reduced TAT and flexible engagement







Engagement Model

- Platform Module Licensing
- Lead Candidate-as-a-Service
- Outcome Driven Productized Solutions
- Co-development

Contact Us

Let's explore how we can support your next discovery efforts

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Topaaz is built to accelerate your discovery goals without compromising scientific integrity