X-CHEM
TAKE THE LEAD. DRIVE DISCOVERY.

DELability

DELability determines the suitability of a DEL screen approach for your target reagent, de-risking the decision to perform a full screen.

Expert Target Evaluation for Confident DEL Screening Decisions

Do you have a large portfolio of targets and need to decide which ones to prioritize for DEL screening? Are you working on a specific target and looking for the best constructs and screening conditions to obtain optimal DEL output? Or maybe you've heard many good things about DEL and are wondering whether you should try DEL screening for your project? X-Chem has the solution! Under X-Chem's fast-turnaround DELability offering, our team will screen your targets against our entire non-exclusive library deck, report the productivity metrics and offer our expert opinion to inform your decisions. When it comes to feasibility assessment, nothing is more convincing than real data from a real DEL screening experiment!

A Quick, Comprehensive Path to Confidence

Each DELability condition uses as little as 100 µg of your target to screen against X-Chem's DELflex library deck, which contains more than 15 billion DNA-encoded compounds representing X-Chem's library design philosophy that emphasizes lead-likeness and developability. The screening output is subjected to rigorous computational filtering to eliminate matrix binders and frequent hitters, and it's then automatically clustered by chemical similarity. Within four weeks of your reagents arriving at X-Chem, we will provide:

- The number of high-quality putative target engagers in our DELflex library deck and their structural clustering patterns
- Your target's output assessment based on our 10+ years of DEL expertise
- Recommendations for proceeding into a full-fledged DEL screening campaign, which can include additional screening conditions and deeper analysis to focus in on compounds with the desired selectivity and binding-mode characteristics that match your project goals

THE DELABILITY PROCESS:

- Review target reagent QC data
- Perform selection campaign (target & no-target control selection conditions)
- Report on productivity of each target reagent selection condition
- Assess the actionability of each target reagent

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DE-RISK PROJECTS & INVEST CONFIDENTLY

- Experiment performed by DEL experts, not contingent on quality of kit products
- Samples the entire X-Chem non-exclusive library deck
- Purity, capture efficiency and qPCR amplification assessed experimentally
- Clustering-informed productivity reports are highly predictive toward screening success

Customized to you. Guided by experts.

We offer the greatest level of flexibility in DELability project design. You can focus on a single target, or you can explore dozens of target reagents or buffer conditions in parallel. You can have X-Chem scientists advise on the best screening conditions specific to your target, or you can keep your targets completely anonymous and perform the screen under X-Chem's tried-and-tested standard protocol. We strongly recommend using target reagents with demonstrated high quality, which are often custom generated but can sometimes be sourced from a suitable commercial vendor. Whether you are an experienced DEL user or just starting out, the DELability offering is your ideal entry point into X-Chem's DEL-driven drug discovery process.

X-Chem is the partner you need to unlock exponential possibilities in your small molecule drug discovery.

Find Your Next Drug Molecule With X-Chem

ABOUT X-CHEM

X-Chem, Inc. is the leader in small molecule discovery science, providing pharmaceutical and biotech companies a complete, seamless solution for screening, hit validation and lead optimization. As pioneers of DNA-encoded chemical library (DEL) technology, the company leverages its market-leading DEL platform to discover novel small molecule leads against challenging, high-value therapeutic targets. In-house lead optimization services enable clients to progress their compounds directly for even higher quality outputs. Our expertise in medicinal chemistry, custom synthesis and scale-up process chemistry enables us to support all aspects of drug discovery, supporting lead optimization through candidate identification.

info@x-chemrx.com

x-chemrx.com