



Description of Services

MICRO-TAG Cell Target Engagement Platform

Drug Discovery to Challenging Targets

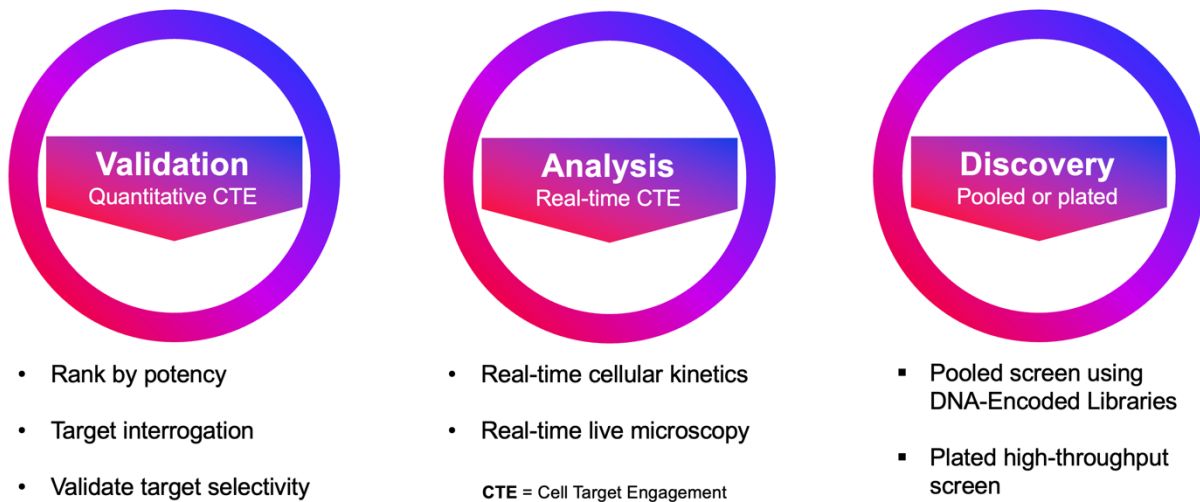
v3.0

À La Carte Cell Target Engagement Services

CellarisBio's cell target engagement platform: 1) Preserves the essential cell biology during drug discovery, 2) Enables validation, analysis and discovery of drug candidates within the cell, 3) Simplifies and de-risks the drug discovery workflow making it scalable and economical.

We can work with any single or multiple drug targets of choice. As the first step, we will **engineer reporter cells** for your target using our Micro-Tag system, then assess its thermal profile and run a pilot **feasibility test**. Altogether, this will take approx. 1 month.

Once the assay for your target is established, we offer these **three à la carte service modules**:



1) VALIDATION: We can test a panel of selected drug candidates in dose-dependent manner using engineered reporter cells. This quantitative cell target engagement (CTE) test will identify and rank candidates with top target engagement potency and selectivity. We will deliver a report upon completion of this phase. The expected time frame for completion of the Validation module is approx. 1 month, depending on the number of targets and complexity of biology.

2) ANALYSIS: We can further test the most promising drug candidates for their cellular target engagement kinetics, live-cell imaging and mechanism-of-action studies, using real-time cell target engagement (CTE). Selected candidates can be tested against wild-type target vs mutant target, as well as its inert analogs. Candidates passing this phase can potentially proceed to further preclinical development. We will deliver a report upon completion of this phase. The expected time frame for completion of the Analysis phase is approx. 1 month, depending on the number of targets and complexity of biology.

3) DISCOVERY: We can screen your target against an ultra-high-content DNA-Encoded Library (DEL) using the engineered reporter cells. You are free to use any compatible DEL of interest. This proprietary discovery method interrogates the target against each component of the library. It identifies ligands that engage and stabilize the target inside the cell. Alternatively, we can do Discovery using the conventional plated libraries.

The generated DEL data can optionally be mined using our AI algorithms for further enrichment of the chemical space. We will deliver a report upon completion of this phase. The expected time frame for completion of the Discovery phase is approx. 2 months depending on the number of targets and screening complexity.

Get in touch for more info at hi@cellarisbio.com