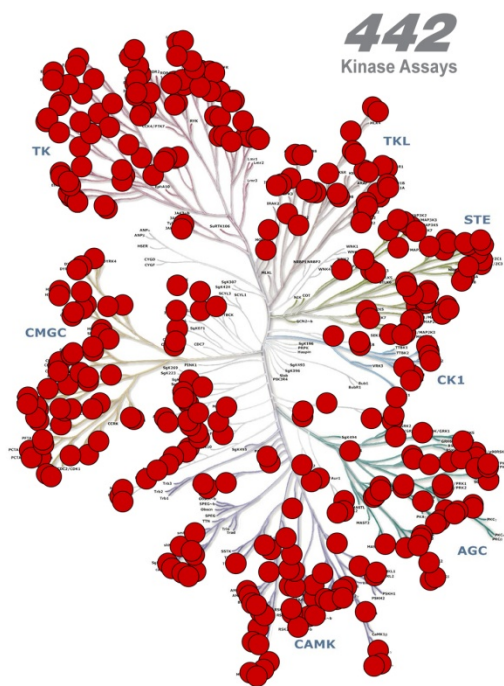


High-throughput Kinase Profiling Technology

KINOMEScan™ is an innovative, high-throughput method for screening small molecules against large numbers of human kinases. By providing a fast, accurate, uniform and quantitative kinase profile that details how well each compound binds to both intended and unintended targets, KINOMEScan™ transforms the promiscuity of kinase inhibitors into a discovery advantage.

The KINOMEScan™ Advantage

- ✓ **Comprehensive** The world's largest kinase panel
- ✓ **Economical** Most screens priced under \$5 per well
- ✓ **Confidential** All data blinded and protected
- ✓ **Fast** Results in ten days or less
- ✓ **Consistent** Outstanding data reliability



Red circles (above) represent the kinases currently available in the KINOMEScan™ panel. *Mutant and lipid kinases not represented.* Human kinome image created and provided by Cell Signaling

Multiple Screening Options Available

Primary Screens (compounds tested at any single concentration, in duplicate)

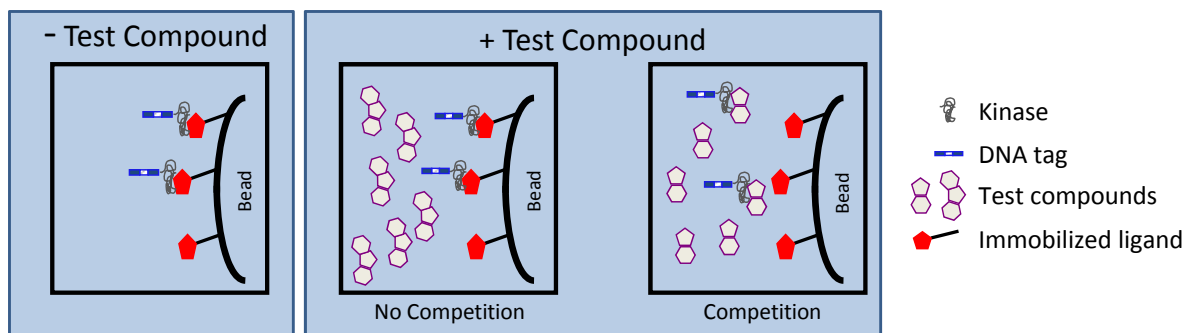
- **scanMAX (442):** Best choice for drug discovery and compound optimization. Definitive set of 442 kinases – the largest panel commercially available.
- **scanEDGE (96):** An economical approach to surveying the human kinome. Contains a popular sampling of 96 kinases distributed throughout the kinome.
- **scanTK (127):** The world's most complete collection of tyrosine kinases. Begin with this set of virtually all tyrosine kinases, and add other kinases as you wish.
- **scanLIPID (20):** The largest commercial panel of human lipid kinases. Includes PIK3, PIK4, and PIP lipid kinase families.
- **scanMODE (12):** Employs activated/non-activated assay pairs to elucidate compound binding mode. An ideal tool for understanding how kinase phosphorylation state affects inhibitor affinity.
- **scanELECT:** Ultimate flexibility for custom applications. An *a-la-carte* approach to exploring kinases of interest. Choose only the kinases you want.
- **scanLIBRARY:** Get more from your compound libraries. Rapidly and inexpensively screen and annotate hundreds or thousands of compounds against any KINOMEScan™ panel.

Dose Response Curves (compounds tested at multiple concentrations, in duplicate)

- **K_d ELECT:** Binding constant (K_d) determination. A quantitative affinity measurement via 11-point curve. Can be performed for any kinase/compound combination.
- **K_d MAX:** Complete K_d profile of our scanMAX panel. Highly useful for kinase inhibitors in advanced development.

How KINOMEScan™ Works

KINOMEScan™ is based on a competition binding assay that quantitatively measures the ability of a compound to compete with an immobilized, active-site directed ligand. The assay is performed by combining three components: DNA-tagged kinase; immobilized ligand; and a test compound. The ability of the test compound to compete with the immobilized ligand is measured via quantitative PCR of the DNA tag.



For a description of Ambit's assay protocol, see Fabian *et al.* A small molecule-kinase interaction map for clinical kinase inhibitors. *Nat. Biotechnol.* 23, 329-336 (2005). To view kinase interaction maps for 38 well-known kinase inhibitors, see Karaman, M.W. *et al.* A quantitative analysis of kinase inhibitor selectivity. *Nat. Biotechnol.* 26, 127-132 (2008). These publications and others are available at www.kinomescan.com.

Learn more and request a price quote at www.kinomescan.com.

KINOMEScan™ - What's in your Library?

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