



The KiNativ™ platform provides an unprecedented capacity for comprehensive and quantitative kinase profiling

ActivX Biosciences proudly offers its KiNativ™ platform for all of your kinase profiling needs. The KiNativ™ approach allows for selective enrichment of native kinases, in any proteome, based on covalent modification of the active site with ATP and ADP acylphosphate probes. Quantitation of enriched kinases is achieved through liquid chromatography-mass spectrometry/mass spectrometry (LC-MS²).

Distinct advantages realized through KiNativ™ profiling include:

- Comprehensive and quantitative profiling of endogenous protein and lipid kinases from any species, in the context of post-translational modifications and binding partners
- Inhibitor selectivity profiles and K_d values for type I and type II inhibitors
- High quality data utilizing proprietary software specifically designed for the LC-MS² analysis of probe labeled kinases

KiNativ™ seamlessly supports kinase drug development from initial hit identification through target validation and on to the clinic

DRUG DEVELOPMENT PROCESS

TARGET DISCOVERY
Activity profiling in disease models and clinical samples

LEAD OPTIMIZATION
Universal assays and broad selectivity analysis

PRECLINICAL/ ANIMAL STUDIES
Quantitative measurement of target engagement in affected tissues for all kinases

CLINICAL DEVELOPMENT
Identification of surrogate markers and biomarkers, and in vivo target analysis

1 Determine relative & absolute KiNativ IC₅₀/K_d values to accurately assess off-target risks

2 Generate SAR for all kinases found in your cellular or animal efficacy model

3 Evaluate live cell treatment and ex vivo profiling of tissues from treated animals





FLEXIBLE SOLUTIONS, POWERFUL RESULTS

Selectivity screening of inhibitors against native protein and lipid kinases

- Determine IC₅₀ and K_d for kinase targets in the context of relevant post-translational modifications and cellular binding partners
- Interrogate both type I and type II inhibitors
- Determine target engagement in live cell and animal studies
- Profile cell lines or tissues from any gene sequenced species
- Cost competitive with recombinant enzyme assays (cost per data point)

KiNativ™ Standard Kinase Panels (~200-240 kinases/panel)

- Comprehensive coverage of all protein and lipid kinases in a given cell line or tissue
- Target lists for more than 20 proteomes currently established
- Cell lines: A375, A549, HUH7, MDA-MB-231, Jurkat, Ramos, THP1, Hel, HeLa, PC3, HCT116, HL60, DU145, NIH3T3, OVCAR3
- Tissues: Human PBMC, mouse brain, mouse liver, mouse spleen, mouse lung, rat brain, rat white blood cells

KiNativ™ Select Panels (~100 kinases/panel)

- Cost effective profiling of select kinases within a given proteome
- Rapid turnaround
- Select target lists available for Jurkat, Ramos, Hel, PC3 and MDA-MB-231

KiNativ™ Master Panels

- Master lists consist of all validated, unique, probe-labeled kinase peptide identified to date (human and mouse)
- Enable custom target lists tailored for the cell line, tissue, and/or target of interest

Non-kinase ATP Binding Protein Panels

- Heat shock proteins, ABC transporters, AAA ATPases, ubiquitin activating enzymes, small molecule kinases, etc.

For more information or a consultation on your specific profiling needs, please contact:

ActivX Biosciences, Inc.

KiNativ™ Customer Service:

Telephone: (858) 526-2515

Email: info@kinativ.com

www.kinativ.com

