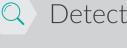


ELISA

Our highly sensitive, non-radioactive assays detect target analytes in cell culture media and biological matrices using competitive, immunometric (i.e., sandwich), or dsDNA sequence-bound approaches.

- Cyclic Nucleotides
- Eicosanoids and Lipids
- Environmental Disruptors
- Hormones
- Immune Signaling Factors
- Transcription Factors





Detection Enzymes

Cayman ELISAs employ either HRP, AP, or AChE conjugates as detection reagents. For each assay, our kit developers select one of these conjugates with an assay design-appropriate use in mind.

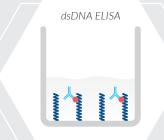


- · Rapid, kinetic reaction rate
- Stop reaction and hold at stable signal for up to 1 hour
- · Reacts with both soluble and insoluble substrates
- Sensitive



Colormetric Detection Substrate: pNPP

- More sensitive than HRP
- · Linear reaction rate
- Stability of staining
- · Useful with high levels of endogenous peroxidase



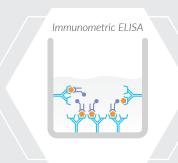
Colormetric Detection Substrate: Ellman's reagent

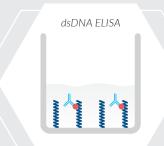
- Fast turnover rate (3X faster than HRP or AP)
- Active in a wide pH range (pH 5.0-10.0)
- Does not self-inactivate during turnover
- Enables redevelopment if assay is accidentally splashed or spilled

AVAILABLE IN A VARIETY

OF FORMATS:





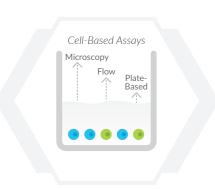


CELL-BASED ASSAYS

Our cell-based assays include fully detailed and tested protocols as well as all necessary reagents, including positive or negative controls (where applicable).

- Nuclear Receptor Activity
- Reactive Species
- Proliferation and Cell Cycle Phase
- Protein Synthesis

- Cell Viability
- Lipid Uptake
- Metabolic Activity
- Neutrophil Activity



AVAILABLE FOR THE FOLLOWING **ASSAY READOUTS:**



Fluorescence Microscope

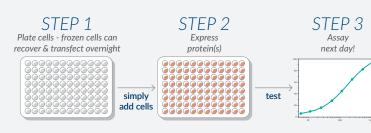


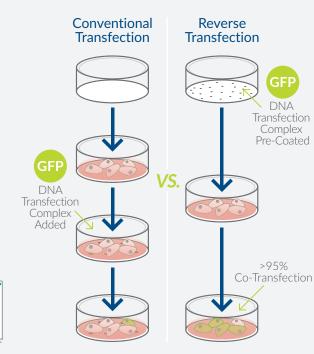




Reverse Transfection Technology

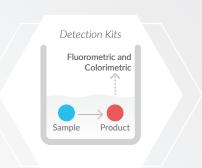
This technology uses plates pre-coated with optimized transfection complexes, offering up to 3-fold increased transfection and >95% co-transfection efficiency (compared to traditional transfection methods) for well to well consistency. This unique system is ideal for rapid assay development and high-throughput screening.





DETECTION KITS

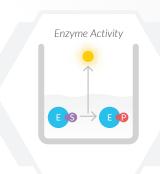
Our detection kits bundle together all the components needed to provide either colorimetric or fluorometric readouts to measure key biomolecules or by-products of their activity by plate-based methods or through immunoblot analysis. These kits serve as highly sensitive indicators, selectively targeting normal biology or disease biomarkers in whole cells, biological fluids, or tissues.



- Cancer
- Cardiovascular Disease
- Cell Biology
- Eicosanoids and Lipids
- Immunology and Inflammation
- Metabolism
- Oxidative Damage

ENZYME ACTIVITY

Our enzyme activity assays contain the necessary substrates and indicators needed to drive a specific enzymatic reaction and monitor the rate of activity. As an added convenience, these kits typically include a control compound (e.g., a selective enzyme inhibitor) for distinguishing specific enzyme activity from background signals.



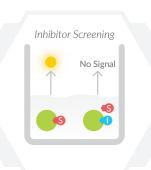
- Cellular Metabolism
- Epigenetics
- Lipid Metabolism
- Mitochondrial Biology
- Oxidative Damage

Assays include

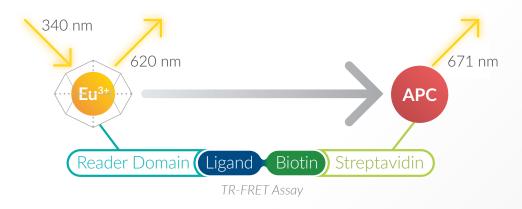
- Positive control compounds (if applicable)
- Negative control compounds (if applicable)
- Substrates, activators, and indicators
- 96-well plate

INHIBITOR SCREENING ASSAYS

Our inhibitor screening assays supply the components needed to obtain a quantitative readout of enzyme activity that can be applied to the identification of small molecule inhibitors from chemical libraries. TR-FRET assay formats are suited to the rapid characterization of ligands for SAR studies of epigenetic compounds in a high-throughput format.



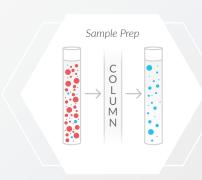
- Nuclear Receptors
- Protein Enzymes (deaminases, peptidases)
- Bromodomains and Tudor Domains
- Epigenetic Enzymes (acetyltransferases, deacetylases methyltransferases, demethylases)
- Lipid Binding Proteins
- · Lipid Enzymes (peroxidases, lipases, synthases, cyclooxygenases, lipoxygenases, hydrolases)



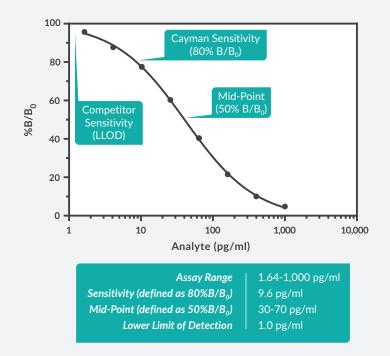
SAMPLE PREPARATION

Our sample preparation kits and tools supply the reagents needed to optimize and prepare samples for assay analysis.

- IP Columns & Sorbent Cartridges
- Equipment and Consumables
- Sample Collection
- Isolation Kits



WHY CHOOSE CAYMAN ASSAY KITS?



Measure With Confidence

Each of our assay kits undergoes rigorous quality testing to certify high precision and accuracy to deliver the sensitivity and specificity needed to detect biologically significant analyte levels.

Sensitivity Defined

Because not all assay companies define their sensitivity similarly, we point out the intended definitions of the points of quantitation on the typical standard curves generated by our kits to ensure you reliable, reproducible results.

For more detailed information on how the sensitivity of our kits compares to other commercial assays, visit www.caymanchem.com/news/why-cayman-assay-kits

Results You Can Trust

Our exceptional understanding of assay development, validation, and performance ensures you will obtain reproducible results, from day to day and batch to batch.

Search Less, Research More

Each kit comes with all the necessary reagents, plates, instructions, and analysis tools to help you find answers quickly and efficiently. Our kits are developed by our team of more than 100 scientists, gaining you access to a wealth of technical data and support.

BIOANALYTICAL SERVICES

Our bioanalytical assay services can help you accelerate drug discovery and development, biomarker discovery and development, and basic research. We offer convenient sample analysis and compound screening on a contract basis using our extensive selection of immunoassays, cell-based assays, and detection kits. Our knowledgeable, highly experienced scientific staff will deliver accurate, high-quality data with rapid turnaround and strict confidentiality.

Our screening and profiling services include:

- Mitochondrial bioenergetics profiling
- MHC peptide sequencing
- COX, PAD, epigenetics screening
- · Lipid profiling and more...



Custom Assay Development

Can't find the perfect assay to fit your research? Leverage our staff's expertise in recombinant protein and antibody production, chemical synthesis and conjugation chemistries, and method development to build an assay that suits your needs.

To learn more about these services, or to discuss your contract research service needs, please contact us.

Email us at contractresearch@caymanchem.com Visit us online at www.caymanchem.com/services Call us toll free at (888) 526-5351

