

Cancer Integrated Solutions for Basic Research & Translational Discovery



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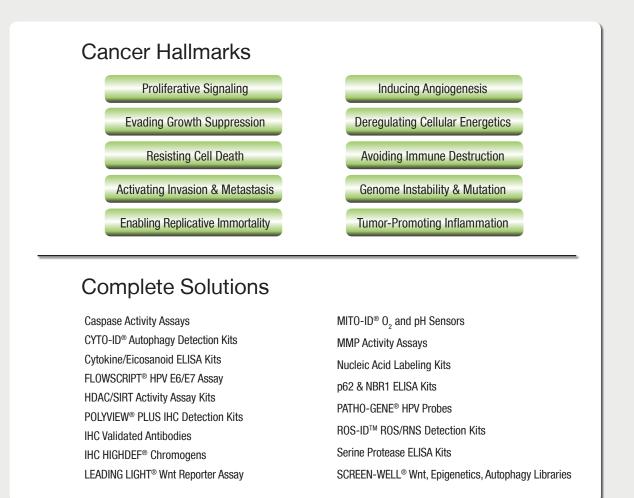
MODULATE IT. LABEL IT. DETECT IT.



Innovation to meet the needs of evolving cancer hallmarks

Discover It.

Your aim may be to investigate cancer's genetic origins, establish the mechanism of action or clinical implications of tumor biomarkers, or develop a targeted pharmaceutical or cellular therapy. At Enzo, our aim is to support your research. As cancer hallmarks have evolved over the last decade, so has our portfolio of tools to support cancer research. Over this time, we have called upon our diverse scientific and technical expertise to create innovative assays and reagents in the fields of epigenetics, autophagy, and Wnt research. These novel tools, and a broad portfolio of products established for decades in peer-reviewed literature, will help support cancer discovery into the next decade and beyond.



Modulate it.

We carry over 3,000 biologically characterized small molecules and the industry's most diverse collection of compound libraries. Our SCREEN-WELL[®] libraries of kinase inhibitors, toxicity screening libraries, epigenetic regulators, natural products, and pathwaytargeting compounds are complemented by innovative HDAC, Sirtuin, and MMP enzyme activity assays, and high-purity, high-activity recombinant proteins for Wnt, TNF ligands, and more.

Label it.

Our proprietary nucleotide labeling technology produces high-yield nucleotideamplification and incorporation of fluorophore- or biotin-conjugated nucleotides. The result is industry-leading consistency for gene copy number and expression analysis by CGH, microarray, FISH, IHC, and *in situ* hybridization.



Detect it.

As a trusted manufacturer of thousands of widely cited and thoroughly validated antibodies, ELISA kits, and cell-based assays, we understand quality means delivering sensitivity, specificity, and consistency. Over 300 immunoassays and 3,000 antibodies enable sensitive and specific detection of protein and small molecule biomarkers. Monitor cell viability, death, and toxic responses with CELLESTIAL® probes for live cell analysis.



Multiplex Analysis of Genotypic and Phenotypic Markers via Flow Cytometry

FLOWSCRIPT® HPV E6/E7 Assay 2.0: mRNA Transcript Expression Analysis at a Single Cell Level (ENZ-GEN305)

The assay employs a novel *in situ* hybridization technique utilizing a cocktail of probes specific to multiple sites within the E6 and E7 genes to ensure the detection of these mRNA transcripts. This homogeneous assay can be performed in less than 3 hours and is specific for the most prevalent high-risk HPV genotypes.

- Homogeneous system omits washing following hybridization and thereby minimizes both leakage and signal degradation resulting in:
 - » More reliable, consistent results
 - » Fewer steps and improved ease-of-use
- Optimized to reduce false positives
- Nuclear dye enables cell cycle analysis

- Complete set of controls including:
 - » Internal control to ensure proper hybridization
 - » External control beads for consistent performance
 - » Nuclear dye controls
- Adaptable to high-throughput platforms for rapid sample analysis
- Minimal sample volume input saves precious samples for additional analysis

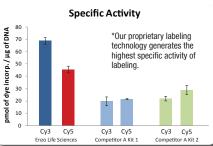


GENE EXPRESSION & COPY NUMBER DETECTION

CYTAG[™] CGH Labeling Kit (ENZ-42671)

Array-based comparative genomic hybridization (aCGH) is a powerful platform for detecting DNA copy number gains and losses associated with chromosomal abnormalities in genetic diseases and cancers. The proprietary labeling technology and high-performance dyes incorporated into our aCGH kits enhance performance with commonly implemented microarray platforms (e.g., Agilent[®] arrays). Superior labeling technology results in more uniform dye incorporation so that comparisons between genomes is done at higher resolution and with improved signal-to-noise ratios.

- High quality data provides fewer errors (false positive or false negative) and less time with manual analysis of the data
- Generates the highest quality DLR scores (0.09 0.12), exceeding industry standards
- Increased resolution for comprehensive, unbiased analysis of DNA copy number changes
- Performs total genomic DNA analysis without amplification or complexity reduction
- Proprietary labeling technology generates the highest specific activity of labeling



Gene Expression & Transcript Analysis with BIOARRAY[™] Amplification and Labeling Systems

RELATED PRODUCTS	
Product Name	Product #
BIOARRAY [™] Low Input RNA Amplification and Biotin Labeling System	ENZ-42422
BIOARRAY HIGHYIELD® RNA Transcript Labeling Kit	ENZ-42655
BIOARRAY [™] Eukaryotic Hybridization Controls	ENZ-42661

BIOARRAY[™] Single-round RNA Amplification and Labeling System (ENZ-42420, ENZ-42421) *Greater biotin incorporation allows improved data quality and analysis of Affymetrix GeneChip® arrays*

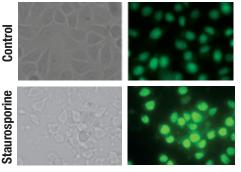
Cancer research...we're enabling it.

LIVE CELL ANALYSIS

NUCLEAR-ID® Green Chromatin Condensation Kit (ENZ-51021)

- Condensation-sensitive fluorescent dye excitable with standard 488 nm laser
- Intercalating dye with superior permeability with any live cell line
- Easy no-wash, mix-and-read protocol for microplates, flow cytometry, and microscopy

Convenient Alternative to Hoechst Dyes That Require 350 nm UV Laser for Detection

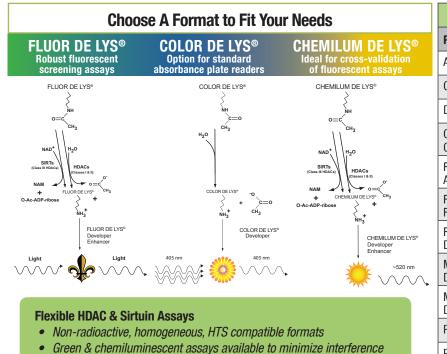


Bright Field

FITC Filter

Chromatin condensation as observed by fluorescence microscopy using a standard 488 nm laser. HeLa cells were treated for 4 hours with DMSO (Control) or 2 μM Staurosporine on a slide and stained with 5 μM NUCLEAR-ID® Green dye. The intercalating dye exhibits increased fluorescence upon chromatin condensation, a hallmark of apoptosis.

HDAC/SIRT SCREENING ASSAYS

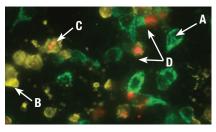


- Assay all HDAC classes from multiple sources
- High-activity, in-house manufactured control enzymes

GFP-CERTIFIED® Apoptosis/Necrosis Detection Kit (ENZ-51002)

- True multiplexing capabilities with GFP and other green fluorescent probes
- Optimized for both fluorescence microscopy and flow cytometry applications
- Suitable for death pathway analysis and drug/toxin studies

Identify Different Stages of Apoptosis



A. Viable cellsC. Late apoptotic cells

B. Early apoptotic cells D. Necrotic cells

GFP-CERTIFIED® Apoptosis/Necrosis Detection Kit (ENZ-51002) detects four distinct cell states. Mitochondrial GFP-expressing HeLa cells were treated with 2 µM Staurosporine for 4 hours. The Apoptosis Detection Reagent (Gold) and Necrosis Detection Reagent (Red) specifically detect cell states with clear spectral separation from mitochondria-associated GFP signal. Healthy cells (A), cells undergoing apoptosis (B), cells undergoing late-stage apoptosis (C), and necrotic cells (D).

FEATURED ENZYME ACTIVITY ASSAYS		
Product Name	Product #	
Acetyltransferase Activity Kit	ADI-907-026	
Calcineurin Phosphatase Assay Kit	BML-AK804	
DPPIV Drug Discovery Kit	BML-AK499	
CHEMILUM DE LYS® HDAC/SIRT Chemiluminescent Drug Discovery Kit	BML-AK532	
FLUOR DE LYS® HDAC Fluorometric Activity Assay Kit	BML-AK500	
FLUOR DE LYS [®] Green HDAC Fluorometric Activity Kit	BML-AK530	
FLUOR DE LYS [®] SIRT1 Fluorometric Drug Discovery Kit	BML-AK555	
MMP-1 Colorimetric Drug Discovery Kit	BML-AK404	
MMP-9 Colorimetric Drug Discovery Kit	BML-AK410	
PKA Kinase Activity Kit	ADI-EKS-390A	
PKC Kinase Activity Kit	ADI-EKS-420A	
Akt Kinase Activity Kit	ADI-EKS-400A	

www.enzolifesciences.com/cancer

You may also be interested in:





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Put our experience to work for you!

Our broad range of scientific expertise and industry-proven manufacturing capabilities, enables us to provide a comprehensive set of solutions for studying cancer research.

Benelux

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