

EPIGENETIC SCREENING

Overview

Established Epigenetic Enzyme Assays

- DNA Methyltransferases
- Histone Methyltransferases
- Histone Demethylases
- Histone Acetyltransferases
- Histone Deacetylases
- Bromodomains
- Chromodomains

Multiple Assay Platforms

- Radiometric Assays
- Fluorescence Intensity
- FRET
- AlphaLISA/AlphaScreen

Broad Service Scope

- Assay Development
- High-Throughput Screening
- Compound Screening for SAR
- Selectivity panel Profiling
- Enzyme Kinetics
- Compound Mechanism of Action
 - Mode of Inhibition and KI
 - Compound Reversibility
 - K_{on} and K_{off}
 - K_i and K_{inact}

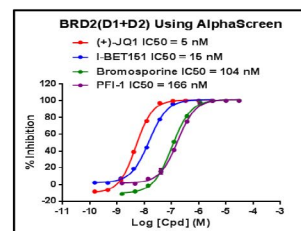
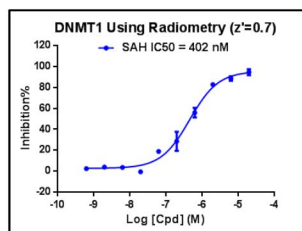
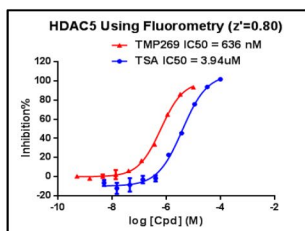
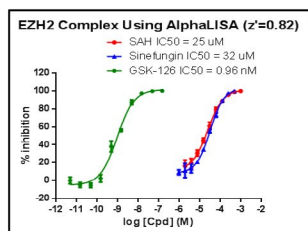
Service Highlights

- High Performance on Data Quality
- Fast Turnaround Time
- "Custom Design" Assay Development

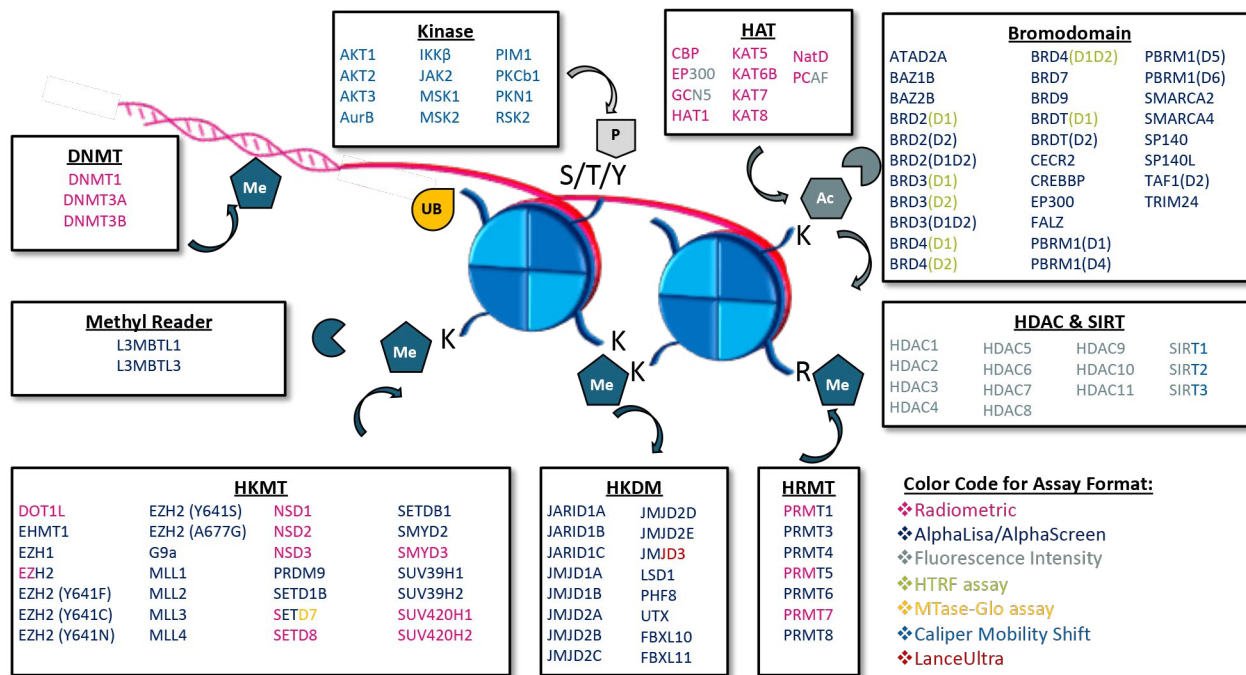
Equipment Highlight



High Quality Data & Fast Turnaround Times

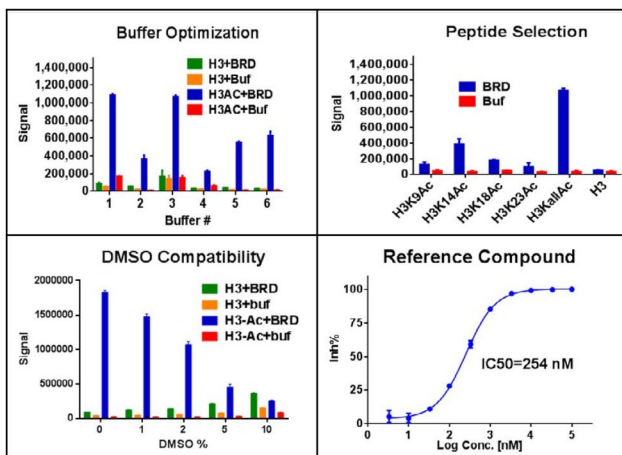


Epigenetic Enzyme Assay Panel Screen

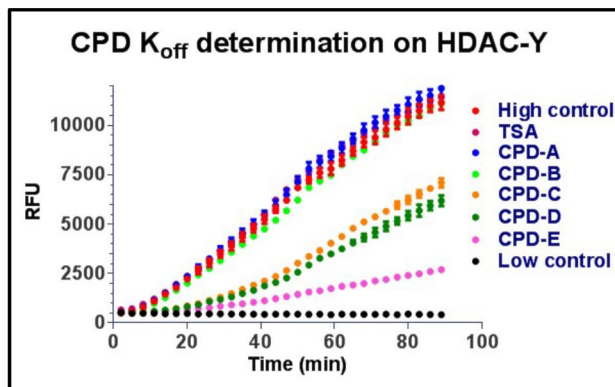


Case Study

HTS Assay Development on Bromodomain-X



Off-Rate Determination of HDAC-Y



CPD	TSA	A	B	C	D	E
K _{off} (min ⁻¹)	0.062	0.38	0.13	0.022	0.017	0.006
T _{1/2} (min)	11	1.8	5.3	31.1	40	126