

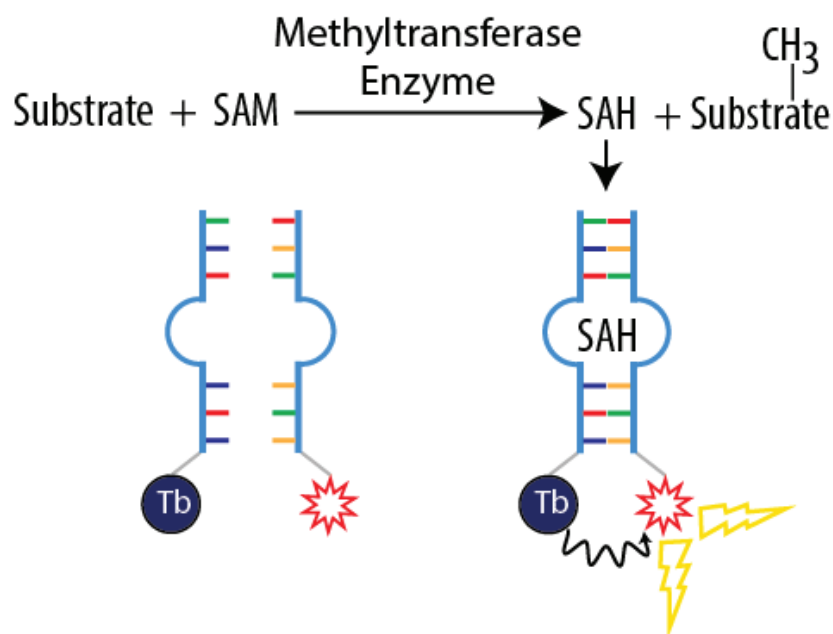
AptaFluor™ SAH

Methyltransferase Assay

Leveraging the Power of Aptamers for HTS Assays

The AptaFluor™ SAH Methyltransferase Assay uses a natural occurring aptamer that selectively binds SAH, the invariant product of methyltransferase reactions. The exquisite affinity and selectivity of the aptamer combined with a positive TR-FRET signal enable screening and profiling of methyltransferases with unparalleled sensitivity.

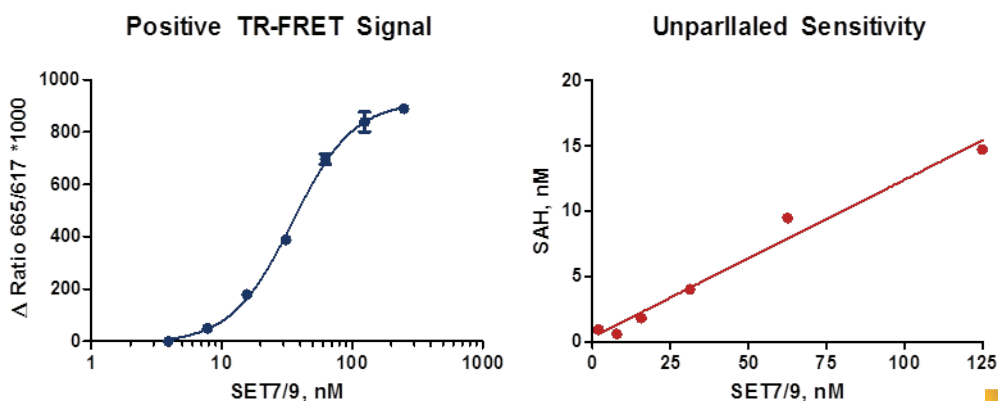
Direct Detection of SAH with a TR-FRET Readout



Ultra-Sensitive

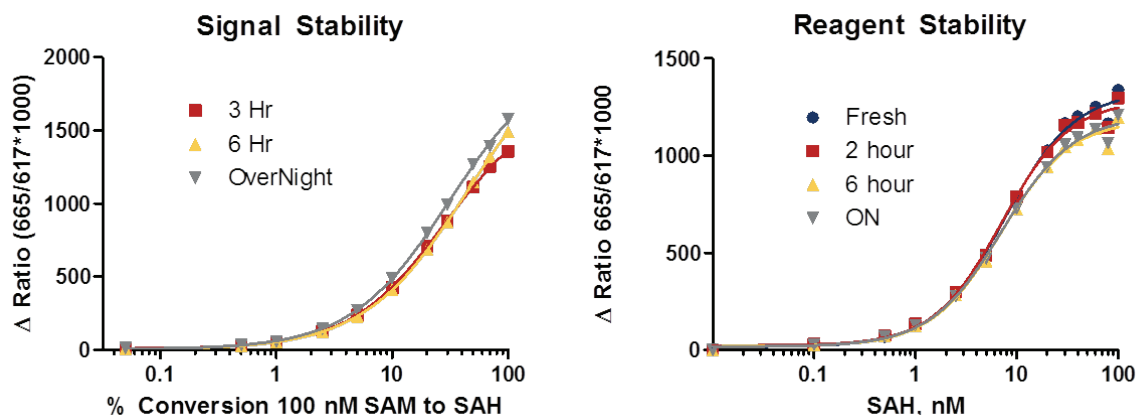
The most sensitive HTS methyltransferase assay available with an LLD of 0.6 nM SAH. This dramatically reduces enzyme usage and allows the assay to be run at or below K_m for SAM.

SET 7/9 Titration with 100 nM SAM



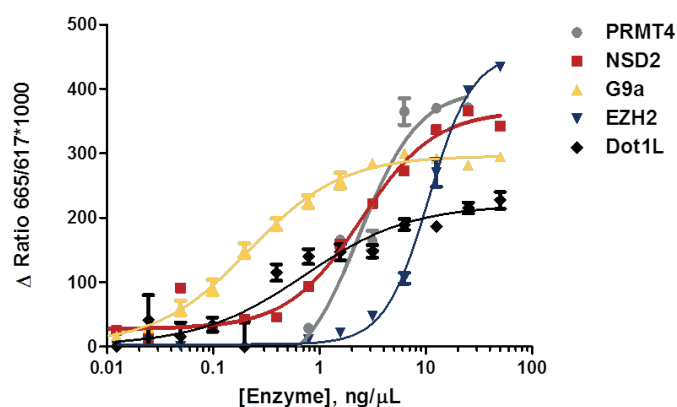
Stable

Outstanding reagent and signal stability reduce assay variability allowing for automated workflows.



Universal Assay

Use with virtually any methyltransferase. The assay is compatible with many acceptor substrates including nucleosomes, histones, polyd(I-C)s, and peptides.



Enzyme	SAM (nM)	Acceptor Substrate	EC ₈₀ (ng/μL)
PRMT4	200	H3.3 Protein	9.57
NSD2	500	Nucleosomes	7.40
G9a	200	H3(1-21) Peptide	0.87
EZH2	500	H3.3 Protein	20.44
Dot1L	200	Nucleosomes	3.55

Simple & HTS Ready

The AptaFluor™ SAH Methyltransferase Assay is in a simple, HTS-ready mix & read format. Run your enzyme reaction, add quench reagent, add AptaFluor™ reagents, and read your plates. The assay is compatible with 96, 384, and 1536 well formats.

