

## G9a Chemiluminescent Assay Kit

### Product Information

**Cat.No.**

Kit-1733

**Product Overview**

G9a is a histone methyltransferase that exhibits methylation activity toward H3-K9.

**Size**

96 reactions

**Description**

The G9a Direct Activity Chemiluminescent Assay Kit is designed to measure G9a activity for screening and profiling applications. The key to the G9a Direct Activity Assay Kit is a highly specific antibody that recognizes methylated K9 residue of Histone H3. With this kit, only three simple steps are required for methyltransferase detection. First, S-adenosylmethionine is incubated with a sample containing assay buffer and methyltransferase enzyme for one hour. Next, primary antibody is added. Finally, the strips are treated with an HRP-labeled secondary antibody followed by addition of the HRP substrate to produce chemiluminescence that can then be measured using a chemiluminescence reader.

**Applications**

Great for studying enzyme kinetics and screening small molecular inhibitors for drug discovery and HTS applications.

**Storage**

12 months from date of receipt, when stored as directed. Kit components require different storage conditions. Be sure to store each component at the proper temperature upon arrival.

**Kit Components**

G9a human enzyme: 8 µg; -80°C 20 µM S-adenosylmethionine\*: 250 µl; -80°C Primary Antibody 5: 12.5 µl; -80°C Secondary HRP-labeled antibody 1: 10 µl; -80°C 4x HMT assay buffer 1: 3 ml; -20°C Blocking buffer: 50 ml; +4°C HRP chemiluminescent substrate A (2 components): 6 ml each; +4°C 96-well

## G9a Chemiluminescent Assay Kit

plate precoated with histone substrate\*\* : 1 plate; +4°C\*) Decreasing of S-adenosylmethionine concentration will make the assay more sensitive to the inhibitors.\*\*\*) Custom coated plates with a lower concentration of histone H3 peptide substrate are available upon request.

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