CREATIVE BIOMART®
Assay Kit

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°C20 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 plate precoated with histone substrate** : 1 plate; +4°C*) Decreasing of S-adenosylmethionine

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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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