CREATIVE BIOMART®
Assay Kit

PRMT5 Chemiluminescent Assay Kit

Product Information

Cat.No. Kit-1858

Product Overview

PRMT5 is a histone methyltransferase that exhibits methylation activity toward H4-R3.

Size

96 reactions

Description

The PRMT5 Direct Activity Chemiluminescent Assay Kit is designed to measure PRMT5 activity for screening and profiling applications. The key to the PRMT5 Chemiluminescent Assay Kit is a highly specific antibody that recognizes methylated R3 residue of Histone H4. With this kit, only three simple steps on a microtiter plate 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 plate is 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

PRMT5/MEP50: 10 µg; -80°C 20 µM S-adenosylmethionine*: 250 µl; -80°C Primary antibody 4: 100 µl; -80°C Secondary HRP-labeled antibody 2: 10 µl; -80°C4x HMT assay buffer 2: 3 ml; -20°C Blocking buffer: 50 ml; +4°C HRP chemiluminescent substrate A (translucent bottle): 6 ml; +4°C HRP chemiluminescent substrate B (brown bottle): 6 ml; +4°C 96-well plate precoated with histone

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substrate: 1 plate; +4°C* Decreasing S-adenosylmethionine concentration will make the assay more sensitive to the inhibitors.

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