

Product datasheet

DNMT1 Inhibitor Screening Assay Kit ab113465

1 References 1 Image

Overview

Product name DNMT1 Inhibitor Screening Assay Kit

Assay type Enzyme activity

Assay time 3h 00m

Species reactivity **Reacts with:** Mouse, Human

Predicted to work with: Mammals 

Product overview DNMT1 (DNA (cytosine-5)-methyltransferase 1) belongs to the DNMT family, responsible for methylation of CpG islands in the genome. DNMT1 preferably methylates cytosines located in hemimethylated DNA and it associates with DNA replication sites in S-phase. The selective inhibition of DNMT1 may lead to demethylation and expression of silenced tumor suppressor genes. Thus, the selective DNMT1 inhibitors could be a new addition to cancer therapeutic agents.

Abcam's DNMT1 Inhibitor Screening Assay Kit (ab113465) allows the user to selectively screen DNMT1 inhibitors quickly. The kit is ready-to-use and provides all the essential components needed to carry out a successful DNMT1 activity/inhibitor screening experiment without the need for radioactivity or any special equipment.

Not sure if this is the right product for you? Check out our [DNMT Product Guide](#) for help.

Notes It might be necessary to purchase DNMT1 enzyme - we recommend [Recombinant human DNMT1 protein \(ab198109\)](#).

Platform Microplate reader

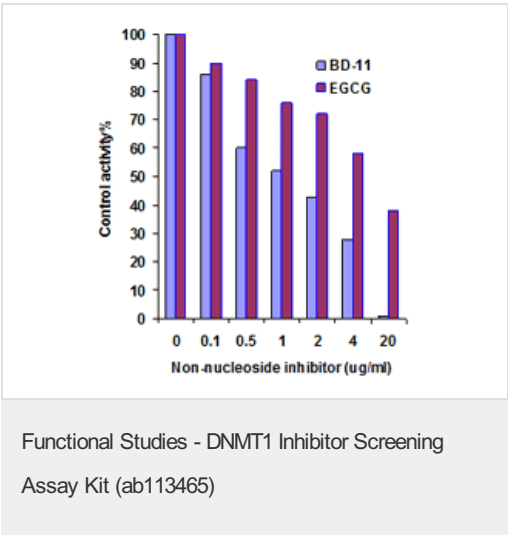
Properties

Storage instructions Please refer to protocols.

| Components | |
|-------------------|----------|
| Enhancer Solution | 1 x 6µl |
| 10X Wash Buffer | 1 x 11ml |
| | |

| Components | |
|--|-----------|
| DNMT Assay Buffer | 1 x 2ml |
| Adomet | 1 x 35µl |
| Capture Antibody | 1 x 5µl |
| Detection Antibody | 1 x 10µl |
| Developing Solution | 1 x 6ml |
| Stop Solution | 1 x 3ml |
| 8-well Substrate-Coated Strip (with frame) | 6 x unit |
| Enhancer Solution | 1 x 12µl |
| 10X Wash Buffer | 1 x 22ml |
| DNMT Assay Buffer | 1 x 4ml |
| Adomet | 1 x 70µl |
| Capture Antibody | 1 x 8µl |
| Detection Antibody | 1 x 20µl |
| Developing Solution | 1 x 12ml |
| Stop Solution | 1 x 6ml |
| 8-well Substrate-Coated Strip (with frame) | 12 x unit |

Images



Recombinant DNMT1 was incubated with substrate and inhibitors. DNMT1 activity was measured using ab113465 in the presence or absence of inhibitors.

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