CREATIVE BIOMART®
Assay Kit

pCAF Inhibitor Screening Kit (Fluorometric)

Product Information

Cat

Kit-2340

Cat.No. Kit-2340

Product Overview

pCAF (P300/CBP-associated factor, EC 2.3.1.48) also known as K (lysine) acetyltransferase 2B (KAT2B), possesses intrinsic histone acetyltransferase (HAT) activity. pCAF contributes to transcriptional activation by acetylating chromatin and transcription factors through its HAT activity. Deregulated HAT activity plays an important role in various cancers. pCAF inhibitors have potential applications in cancer therapy. pCAF uses both histone 3 (H3) and histone 4 (H4) as substrates. pCAF Inhibitor Screening Kit utilizes H3 peptide and Acetyl CoA as the substrates. pCAF acetylates the peptide and generates Coenzyme A with a free thiol group. The CoA is detected using a Thiol Detecting Probe that reacts with thiol groups and gives enhanced fluorescence that can be measured at Ex/Em = 392/482 nm. In the presence of pCAF specific inhibitors, the enzymatic activity is inhibited resulting in decreased or total loss of fluorescence. This assay kit is a simple, sensitive, and rapid tool to screen potential pCAF inhibitors.

Applications

Screening/studying/characterizing potential inhibitors of pCAF

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

pCAF Assay Buffer; pCAF Enzyme; Acetyl CoA (Lyophilized); H3 Peptide (Lyophilized); Thiol Detecting

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pCAF Inhibitor Screening Kit (Fluorometric)

Probe; pCAF Inhibitor (Garcinol)

Detection method Fluorescence (Ex/Em = 392/482 nm)

Features & Benefits

Simple procedure; takes ~ 45 min; Fast and convenient; Kit contains the necessary reagents for testing putative pCAF inhibitors

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