CREATIVE BIOMART®
Assay Kit

p300 Inhibitor Screening Assay Kit (Fluorometric)

Product Information

Cat

Kit-1076

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Description

p300 (EC 2.3.1.32) or KAT3B, a histone acetyltransferase, contributes to transcriptional activation by acetylating chromatin on the lysine residues of H3 and H4 histones. There is growing evidence that p300 plays an important role in cancer cell proliferation and differentiation. p300 inhibitors have potential applications in cancer therapy. p300 Inhibitor Screening Kit utilizes a H3 peptide and Acetyl CoA as the substrates. p300 acetylates the peptide and generates CoA-SH 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 p300 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 inhibitors of p300.

Applications

Screening/studying/characterizing potential inhibitors of p300

Storage

-80°C

Shipping

Dry Ice

Size

100 assays

Kit Components

p300 Assay Buffer; p300 Enzyme; Acetyl CoA (Lyophilized); H3 Peptide (Lyophilized); Thiol Detecting Probe; p300 Inhibitor (Anacardic Acid, 5 mM)

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

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Features & Benefits

Simple procedure; takes ~ 45 min;
Fast and convenient;
Kit contains the necessary reagents for testing putative p300 inhibitors

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