CREATIVE BIOMART®
Assay Kit

HAT (H4) Activity Fluorometric Assay Kit

Product Information

Cat

Kit-2262

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Product Overview

Histone Acetyltransferases (HATs) are enzymes that acetylate histone substrates resulting in important regulatory effects on chromatin structure and assembly, and gene transcription. Modifications of these proteins by HATs play an important role in the control of gene expression, and their dysregulation has been linked to cancer, neurodegeneration, and other diseases. HAT Activity Assay Kit utilizes Acetyl CoA and H4 histone peptide as substrates. In this assay, HAT enzyme catalyzes the transfer of acetyl groups from Acetyl-CoA to the histone peptide, thereby generating two products - acetylated peptide and CoA-SH. The CoA-SH reacts with the developer and to generate a product that is detected fluorometrically at Ex/Em = 535/587 nm. The assay can detect HAT activity equivalent to as low as 1.5 μU of p300 in a variety of samples.

Applications

Measurement of HAT activity of immunoprecipitated samples.
Measurement of HAT activity of purified enzyme preparations.
Measurement of HAT activity in Nuclear Extracts.

Storage

-80°C

Shipping

Dry Ice

Size

100 assays

Kit Components

HAT Assay Buffer; Acetyl CoA (Lyophilized); H4 Peptide (Lyophilized); Substrate Mix (Lyophilized);

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Developer; PicoProbe; CoA Standard (Lyophilized); Positive Control (HeLa Nuclear Extract)

Detection method Fluorescence (Ex/Em = 535/587 nm)

Features & Benefits

Simple, rapid & convenient; The assay can detect HAT Activity equivalent to as low as 1.5 μU of p300 in a variety of samples.

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