CREATIVE BIOMART®
Assay Kit

Adenosylhomocysteinase (AHCY) Activity Fluorometric Assay Kit

Product Information

Cat

Kit-2302

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Product Overview

Adenosylhomocysteinase (AHCY) (EC 3.3.1.1) or S-adenosylhomocysteine hydrolase (SAHH); is an enzyme that catalyzes the reversible hydrolysis of S-Adenosyl Homocysteine (SAH) to adenosine and homocysteine. AHCY regulates the intracellular SAH concentration which in turn regulates S-adenosyl methionine (SAM)-dependent methyltransferases. Down-regulation of AHCY has been associated with certain forms of cancer and Huntington's disease, while in Wilson's disease; the enzyme is inhibited by the accumulated copper. Mutations in the AHCY gene cause SAHH deficiency disease. AHCY Activity Assay kit can kinetically measure AHCY activity by detecting adenosine generation resulting from the hydrolysis of SAH. Adenosine is detected via a multi-step reaction, resulting in the generation of an intermediate that reacts with the OxiRed; Probe. The fluorescent product is measured at Ex/Em = 535/587 nm. Limit of quantification (L.O.Q) is 1 µU recombinant human AHCY.

Applications

Detection of AHCY activity

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

AHCY Assay Buffer; Homogenization Buffer; OxiRed Probe; SAH Substrate; Enzyme Mix I; Enzyme Mix

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II; Adenosine Standard (10 mM); AHCY Enzyme (Positive Control)

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

Features & Benefits

Rapid, simple & convenient; The assay can detect AHCY activity as low as 1 μU recombinant human AHCY.

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