

Adenosyl homocysteinase Inhibitor Screening Assay kit

Cat. No. KITZ-037 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Adenosyl Homocysteinase (AHCY) or S-adenosylhomocysteine hydrolase (SAHH) is an enzyme that catalyzes the reversible hydrolysis of S-Adenosyl Homocysteine (SAH) to adenosine and homocysteine. In mammals, AHCY is the only enzyme capable of performing this reaction. SAH is the by-product and a potent inhibitor of methyltransferase activity. AHCY deletion induces embryonic lethal in many organisms (from plants to mammals). In humans, AHCY deficiency is associated with an incurable rare recessive disorder in methionine metabolism. The kit utilizes SAH as the substrate to form homocysteine and adenosine. The free thiol group of the homocysteine can be detected with a thiol probe generating an enhanced fluorescent signal at Ex/Em = 400/465 nm. The assay principle is displayed in Figure 1. The kit provides the easiest and most accurate approach to measuring AHCY activity.

Size

100 Assays

Storage

Store at -20 °C

Shipping

Ice pack

Kit Components

AHCY Substrate SAH: 100 µL
AHCY Assay Buffer: 12 mL
Thiol Probe (80X): 60 µL
AHCY Enzyme Mix: 2500 µL
3-Deazaneplanocin A (DZNep, 2 mM): 20 µL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA