

## Native Baker's yeast (*S. cerevisiae*) S-Acetyl-coenzyme A synthetase

Cat. No. NATE-0026

Lot. No. (See product label)

### Introduction

**Description** Acetyl-coenzyme A synthetase catalyzes the production of acetyl-CoA. It is involved in histone acetylation in the nucleus. It may be involved in the growth of nonfermentable carbon sources such as glycerol. Acetyl-coenzyme A synthetase is induced by acetate, acetaldehyde and ethanol.

**Applications** S-Acetyl-coenzyme A synthetase may be used to study various metabolic pathways, such as glycolysis, gluconeogenesis, pyruvate metabolism and CO fixation. It may also be used in gene expression studies.

**Synonyms** acetyl-CoA synthetase; acetyl activating enzyme; acetate thiokinase; acyl-activating enzyme; acetyl coenzyme A synthetase; acetic thiokinase; acetyl CoA ligase; acetyl CoA synthase; acetyl-coenzyme A synthase; short chain fatty acyl-CoA synthetase; short-chain acyl-coenzyme A synthetase; ACS; EC 6.2.1.1; 9012-31-1

### Product Information

**Source** Baker's yeast (*S. cerevisiae*)

**Form** Lyophilized powder containing stabilizers as potassium phosphate, sucrose, and reduced glutathione

**EC Number** EC 6.2.1.1

**CAS No.** 9012-31-1

**Activity** > 3 units/mg protein

**Unit Definition** One unit will form 1.0  $\mu$ mole of S-acetyl coenzyme A from acetate, ATP, and coenzyme A per min at pH 7.5 at 37°C.

### Usage and Packaging

**Package** Package size based on protein content.

### Storage and Shipping Information

**Storage** -20°C