

## ATP Citrate Lyase Active from Human, Recombinant

Cat. No. NATE-0944

Lot. No. (See product label)

### Introduction

#### Description

ATP Citrate Lyase is an enzyme involved in fatty acid synthesis that generates cytosolic acetyl-CoA and oxaloacetate from Citrate and CoA. ATP Citrate Lyase is often upregulated in cancer.

#### Applications

Active human ATP Citrate Lyase is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. Active human ATP Citrate Lyase has been used in a study to ascertain the nature of the catalytic phosphorylation that initiates the ACL reaction, and to identify the active site residues involved. Active human ATP Citrate Lyase has also been used in a study to analyze tumor metabolism to reveal mitochondrial glucose oxidation in genetically diverse human glioblastomas.

#### Synonyms

ACLY; ATP-Citrate synthase; ATPCL; CLATP; ATP-citric lyase; ATP:Citrate oxaloacetate-lyase [(pro-S)-CH<sub>2</sub>COO<sup>-</sup>→acetyl-CoA] (ATP-dephosphorylating); acetyl-CoA:oxaloacetate acetyltransferase (isomerizing; ADP-phosphorylating); adenosine triphosphate Citrate Lyase; Citrate cleavage enzyme; Citrate-ATP lyase; citric cleavage enzyme; ATP Citrate (pro-S)-lyase

### Product Information

#### Species

Human

#### Source

Baculovirus

#### Form

Aqueous solution, Formulated in 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20 and 10% glycerol.

#### Molecular Weight

147 kDa

#### Purity

> 90% (SDS-PAGE)

#### Unit Definition

One unit is defined as the amount of enzyme required to convert 1 pmol of ADP to ATP/min at 37°C.

### Storage and Shipping Information

#### Storage

Store at -70°C. Avoid multiple freeze-thaw cycles.