Creative Enzymes®

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 identity 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)-CH2COO-->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.