Creative Enzymes®

Citrate synthase from E. coli, Recombinant

Cat. No. NATE-1059

Lot. No. (See product label)

Introduction

Description	The enzyme citrate synthase E.C. 2.3.3.1 (previously 4.1.3.7)] exists in nearly all living cells and stands as a pace-making enzyme in the first step of the citric acid cycle (or Krebs cycle). Citrate synthase is localized within eukaryotic cells in the mitochondrial matrix, but is encoded by nuclear DNA rather than mitochondrial. It is synthesized using cytoplasmic ribosomes, then transported into the mitochondrial matrix.
Synonyms	CS; EC 4.1.3.7; EC 2.3.3.1; 9027-96-7; Citrate (Si)-synthase; (R)-citric synthase

Product Information

Source	E. coli
Form	Liquid
EC Number	EC 2.3.3.1
CAS No.	9027-96-7
Molecular Weight	~ 50kD
Activity	~ 15 U/mg protein
Unit Definition	One Unit is defined as the amount of enzyme required to produce one µmole of citric acid from oxaloacetic acid and acetyl-CoA, measured at 232 nm in Tris-HCl buffer at pH 8.0 and 25°C.

Storage and Shipping Information

Storage	4°C