

Native Pigeon Citrate Synthase

Cat. No. NATE-0165

Lot. No. (See product label)

Introduction

Description

Citrate synthase catalyses the conversion of Citrate to acetyl-CoA in the presence of coenzyme-A with the release of H₂O and oxaloacetate. The enzyme has a molecular weight of 85 kDa and a pI of 6.1-6.6. It is inhibited by fluoroacetyl-CoA, palmitoyl-CoA, and citroyl-CoA. It is also inhibited when it is acetylated by acetic anhydride or iodinated by iodine.

Synonyms

CS; EC 4.1.3.7; EC 2.3.3.1; 9027-96-7; Citrate (Si)-synthase; (R)-citric synthase; Citrate oxaloacetate-lyase [(pro-3S)-CH₂COO⁻→acetyl-CoA]

Product Information

Species

Pigeon

Source

Pigeon breast muscle

Form

ammonium sulfate suspension. Crystalline suspension in 2.2 M (NH₄)₂SO₄ solution, pH 7.0, containing 6 mM phosphate and 0.5 mM Citrate

EC Number

EC 4.1.3.7

CAS No.

9027-96-7

Activity

80-150 units/mg protein (modified Warburg-Christian)

Pathway

2-Oxocarboxylic acid metabolism, organism-specific biosystem; Carbon metabolism, organism-specific biosystem; Citrate cycle (TCA cycle, Krebs cycle), organism-specific biosystem

Unit Definition

One unit will form 1.0 μmole of Citrate from oxalacetate and acetyl CoA per min at pH 8.0 at 37°C.

Storage and Shipping Information

Storage

2-8°C