

Native Pigeon Carnitine Acetyltransferase

Cat. No. NATE-0159

Lot. No. (See product label)

Introduction

Description

Carnitine acetyltransferase maintains the cellular and mitochondrial levels of acetyl-CoA, a key cofactor required for oxidative metabolism, by catalyzing an equilibrium between acetyl-CoA and acetyl-L-carnitine, a storage form of activated acetate. Carnitine acetyltransferase also maintains the pool of acetyl-CoA required for neuronal and nonneuronal acetylcholine production.

Synonyms

acetyl-CoA-carnitine O-acetyltransferase; acetylcarnitine transferase; carnitine acetyl coenzyme A transferase; carnitine acetylase; carnitine acetyltransferase; carnitine-acetyl-CoA transferase; CATC; 9029-90-7; carnitine O-acetyltransferase; EC 2.3.1.7; CRAT; CAT

Product Information

Species

Pigeon

Source

Pigeon breast muscle

Form

ammonium sulfate suspension. Crystalline suspension in 3.2 M (NH₄)₂SO₄ solution, 50 mM potassium phosphate, 1 mM dithiothreitol, pH 7.0

EC Number

EC 2.3.1.7

CAS No.

9029-90-7

Activity

> 70 units/mg protein

Pathway

Peroxisome, organism-specific biosystem; Peroxisome, conserved biosystem

Function

carnitine O-acetyltransferase; Carnitine acetylase; carnitine acetyltransferase

Unit Definition

One unit will convert 1.0 μmole of acetyl-L-carnitine and CoA to L-carnitine and acetyl-CoA per min at pH 8.0 at 25°C.

Storage and Shipping Information

Storage

2-8°C