

Native Escherichia coli L-Arginine Decarboxylase

Cat. No. NATE-0033

Lot. No. (See product label)

Introduction

Description

In enzymology, an arginine decarboxylase (EC 4.1.1.19) is an enzyme that catalyzes the chemical reaction: L-arginine \rightleftharpoons agmatine + CO₂. Hence, this enzyme has one substrate, L-arginine, and two products, agmatine and CO₂. This enzyme belongs to the family of lyases, specifically the carboxy-lyases, which cleave carbon-carbon bonds. It employs one cofactor, pyridoxal phosphate.

Synonyms

arginine decarboxylase; EC 4.1.1.19; 9024-77-5; SpeA; L-arginine carboxylase; L-Arginine Decarboxylase; ADC

Product Information

Source

Escherichia coli

EC Number

EC 4.1.1.19

CAS No.

9024-77-5

Activity

5-15 units/mg protein

Unit Definition

One unit will release 1.0 μ mole of CO₂ from L-arginine per min at pH 5.2 at 37°C.

Storage and Shipping Information

Storage

-20°C