

Native Porcine Aconitase

Cat. No. NATE-0024

Lot. No. (See product label)

Introduction

Description

Aconitase catalyses the stereo-specific isomerization of Citrate to Isocitrate via cis-aconitate in the tricarboxylic acid cycle. Aconitase is inhibited by cyanide, sulfide and copper and mercury at low concentrations. It is competitively inhibited by trans-aconitate. Aconitase contains an internal Fe-S cluster which is responsible for its activity.

Applications

Aconitase may be useful in diabetes research as well as to study structural conservation between iron-responsive element binding proteins (IRE-BP) and isomerases.

Synonyms

cis-aconitase; aconitase; Citrate hydro-lyase; Citrate (Isocitrate) hydro-lyase; EC 4.2.1.3; 9024-25-3; aconitate hydratase;

Product Information

Species

Porcine

Source

Porcine heart

EC Number

EC 4.2.1.3

CAS No.

9024-25-3

Unit Definition

One unit will convert 1.0 μ mole of Citrate (via cis-aconitate) to Isocitrate per min at pH 7.4 at 25°C.

Storage and Shipping Information

Storage

-20°C