Creative Enzymes®

Native Human Carbonic Anhydrase

Cat. No. NATE-1678

Lot. No. (See product label)

Introduction

Description Carbonic anhydrase (carbonate dehydratase) catalyzes the following reaction: CO2 + H2O ------> H2CO3 The enzyme is widespread in nature. In animals it plays an important role in respiration by facilitating the transport of carbon dioxide. In plants, carbonic anhydrases are involved in the photosynthetic fixation of CO2. Mammalian erythrocytes contain two distinct forms of carbonic anhydrase distinguished by differences in their catalytic activities. The enzyme requires zinc for its activity and it has a molecular weight of 30,000.

Synonyms carbonic anhydrases; carbonate dehydratases; EC 4.2.1.1; anhydrase; carbonate anhydrase; carbonic acid anhydrase; carboxyanhydrase; carbonic anhydrase A; carbonate hydro-lyase

Product Information

Species Human

Source Human Liver

Form Freeze-dried powder

EC Number EC 4.2.1.1

CAS No. 9001-03-0

Activity 2000 U/mg protein

Solubility Distilled water or dilute buffer

Storage and Shipping Information

Storage Store at -20° C