

Recombinant Human Carbonic Anhydrase I Protein

Cat. No. RHCA-100

Lot. No. (See product label)

Introduction

Description Carbonic Anhydrase (CA) catalyzes the reversible reaction of CO2 + H2O = HCO3 + H+, which is

fundamental to many processes such as respiration, renal tubular acidification and bone resorption. Topics in a CA meeting (6th International Conference on the CAs, June 20-25, 2003, Slovakia) ranged from use of CAs as markers for tumor and hypoxia in clinic, as nutritional supplement in milk, and as a tool for CO2 removal and mosquito control in industry. CA1 is a cytosolic enzyme with the highest levels in erythrocytes and is a very early marker for erythroid differentiation. The activity of CA1 can also be measured by its ability to catalyze the reaction CO2 + H2O → HCO3- + H+, using a published method.

Synonyms CA1; CA-I; Carbonate dehydratase I; carbonic anhydrase 1; Carbonic anhydrase B; Carbonic

Anhydrase I; carbonic anhydrase ICAB; carbonic dehydratase; EC 4.2.1.1

Product Information

Species Human

Source E. coli

Form Supplied as a 0.2 μm filtered solution in Tris and NaCl.

EC Number EC 4.2.1.1

Molecular

r 30 kDa

Weight

Purity >95%

Activity >10 pmol/min/μg

Endotoxin

<1.0 EU per 1 μ g of the protein by the LAL method.

Level

Storage and Shipping Information

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to

-70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.

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