Recombinant Human Carbonic Anhydrase 1/CA1 Protein (His Tag)



Catalog Number:PKSH032156

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Carbonic Anhydrase 1;Carbonate Dehydratase I;Carbonic Anhydrase

B;CAB;Carbonic Anhydrase I;CA-I;CA1

Species Human
Expression Host E.coli

SequenceAla2-Phe261AccessionP00915Calculated Molecular Weight29.9 kDaObserved molecular weight25-35 kDaTagC-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 12.5mM Tris-HCl, 75mM NaCl, pH 7.5.

Reconstitution Not Applicable

Background

Carbonic Anhydrase 1 (CA1) is a cytosolic enzyme, belonging to the alpha-carbonic anhydrase family. It is highly expressed in erythrocytes and acts as an early marker for erythroid differentiation. Carbonic anhydrase 1 plays a improtant role in many biological processes such as calcification, cellular respiration, bone resorption, acid-base balance. It is activated by imidazole, histamine, L-adrenaline, L- and D-histidine, and L- and D-phenylalanine. At the same time, It is inhibited by sulfonamide derivatives and coumarins. In addition, CA1 is a zinc metalloenzyme that has reversible hydration of carbon dioxide. It can hydrate cyanamide to urea.

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