Datasheet for ABIN7318230

CA1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	CA1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 1/CA1 Protein (His Tag)(Active)
Sequence:	Ala2-Phe261
Characteristics:	Recombinant Human Carbonic Anhydrase 1 is produced by our E.coli expression system and the target gene encoding Ala2-Phe261 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is 78.1 pmol/min/µg .

Target Details

Target:	CA1
Alternative Name:	Carbonic Anhydrase 1/CA1 (CA1 Products)

Target Details

Background:	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. Synonym: Carbonic Anhydrase 1, Carbonate Dehydratase I, Carbonic Anhydrase B, CAB, Carbonic Anhydrase I, CA-I, CA1
Molecular Weight:	29.9 kDa
UniProt:	P00915

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.