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Datasheet for ABIN7194577 CA7 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CA7
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 7/CA7 Protein (His Tag)(Active)
Sequence:	Met 1-Ala 264
Characteristics:	A DNA sequence encoding the human CA7 (P43166) (Met 1-Ala 264) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its esterase activity. The activity is >20 pmoles/min/µg.

Target Details

Target:	CA7
Alternative Name:	Carbonic Anhydrase 7/CA7 (CA7 Products)
Background:	Background: Carbonic anhydrase 7; also known as carbonate dehydratase VII; carbonic

Target Details

anhydrase VII; CA-VII and CA7; is a cytoplasm protein which belongs to the alpha-carbonic anhydrase family. Carbonic anhydrases are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes; including respiration; calcification; acid-base balance; bone resorption; and the formation of aqueous humor; cerebrospinal fluid; saliva; and gastric acid. Carbonic anhydrases show extensive diversity in tissue distribution and in their subcellular localization. CA7 / CA-VII is predominantly expressed in the salivary glands. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms.

Synonym: Carbonic Anhydrase 7; Carbonate Dehydratase VII; Carbonic Anhydrase VII; CA-VII; CA7; CAVII

Molecular Weight: 31 kDa

UniProt: [P43166](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.