# Recombinant Human Carbonic Anhydrase 7/CA7 Protein (His Tag)



Catalog Number: PKSH032164

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

## Description

Synonyms Carbonic Anhydrase 7; Carbonate Dehydratase VII; Carbonic Anhydrase VII; CA-

VII;CA7;CAVII

SpeciesHumanExpression HostE.coli

Sequence Met 1-Ala264

AccessionP43166Calculated Molecular Weight30.7 kDaObserved molecular weight31 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.

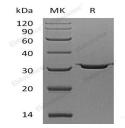
**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

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

Formulation Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.

**Reconstitution** Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

Carbonic Anhydrase 7 (CA7) is a member of the alpha-carbonic anhydrase family. Alpha-carbonic anhydrase is a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. Furthermore; Alpha-carbonic anhydrase is associated with many biological processes; including calcification; respiration; bone resorption; acid-base balance and the formation of aqueous humor. CA7 is activated by histamine; L-adrenaline; L- and D-histidine; and L- and D-phenylalanine; but it is inhibited coumarins; sulfonamide derivatives such as acetazolamide (AZA) by saccharin and Foscarnet.

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