

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



Catalog Number:PKSH030890

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

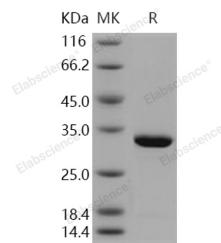
## Description

<b>Synonyms</b>	Carbonic Anhydrase 7;Carbonate Dehydratase VII;Carbonic Anhydrase VII;CA-VII;CA7;CAVII
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Ala 264
<b>Accession</b>	P43166
<b>Calculated Molecular Weight</b>	31.0 kDa
<b>Observed molecular weight</b>	33 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measured by its esterase activity. The activity is > 20 pmoles/min/μg.

## Properties

<b>Purity</b>	> 96 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 96 % as determined by reducing SDS-PAGE.

## Background

Carbonic anhydrase 7; also known as carbonate dehydratase VII; carbonic 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

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coding region results in multiple transcript variants encoding different isoforms.

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