

## 32-7096: Recombinant Human Carbonic Anhydrase 7/CA7 (C-6His)

**Gene :** CA7  
**Gene ID :** 766  
**Uniprot ID :** P43166

### Description

Source: E.coli.  
MW :30.72kD.

Recombinant Human Carbonic Anhydrase 7 is produced by our E.coli expression system and the target gene encoding Met1-Ala264 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MTGHHGWGYGQDDGPSHWHKLYPIAQGDRQSPINIISQAVYSPSLQPLELSYEACMSLSITNNGHSVQVDFN  
DSDDRVTVTGGPLEGPYRLKQFHFHWGKKHDVGEHTVDGKSFPSELHLVHWNAKKYSTFGEAASAPDGLA  
VVGVFLETGDEHPSMNRLTDALYMVRFKGTKAQFSCFNPKCLLPASRHYWTYPGSLTTPPLESVTWIVLREPI  
CISERQMGKFRSLLFTSEDDERIHMVNNFRPPQPLKGRVVKASFRALEHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.  
**Biological Activity :** Specific Activity is greater than 1133.92pmol/min/ug