

Recombinant Human CA7

Cat. No. CA7-51H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carbonic Anhydrase 7/CA7 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Ala264) of Human CA7.
Species	Human
Source	E.coli
ProteinLength	1-264 a.a.
Description	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.
Form	Supplied as a 0.2 µM filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0
AA Sequence	MTGHHGWGYGQDDGPSHWHKLYPIAQGDRQSPINIISSQAVYSPSLQPLELSYEAC MSLSITNNG HSVQVDFNDSDDRTVVTGGPLEGPYRLKQFHFHWGKKHVDVGSEHTV DGKSFPSSELHLVHWNACKY STFGEAASAPDGLAVVGVFLETGDEHPSMNRLTDAL YMRFKGTKAQFSCFNPCKLLPASRHYWT YPGSLTTPPLSESVTWIVLREPICISER

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QMGKFRSLLFTSEDDERIHMVNNFRPPQPLKGRVVKA SFRALEHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [CA7 carbonic anhydrase VII \[Homo sapiens \]](#)

Official Symbol CA7

Synonyms CA7; carbonic anhydrase VII; carbonic anhydrase 7; CA-VII; carbonic dehydratase VII; carbonate dehydratase VII; CAVII;

Gene ID [766](#)

mRNA Refseq [NM_001014435](#)

Protein Refseq [NP_001014435](#)

MIM [114770](#)

UniProt ID [P43166](#)

Chromosome Location 16q22.1

Function carbonate dehydratase activity; lyase activity; metal ion binding; zinc ion binding;

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