

## Recombinant Human CA11, His-tagged

**Cat. No.** CA11-50H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human Carbonic Anhydrase-Related Protein 11/CA11 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (His34-Arg328) of Human CA11 fused with a 6His tag at the C-terminus.

**Species**                      Human

**Source**                        HEK293

**ProteinLength**              34-328 a.a.

**Description**                Carbonic Anhydrase-Related Protein 11 (CA11) is a secreted protein member of the  $\alpha$ -carbonic anhydrase family. Carbonic Anhydrases (CAs) 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. CA11 is expressed abundantly in the brain with moderate expression also present in spinal cord and thyroid. CA11 may play a general role in the central nervous system.

**AA Sequence**                HIGPAPDPEDWWSYKDNLQGNFVPGPPFWGLVNAAWSLCAVGKRQSPVDVELKR  
 VLYDPFLPPLR LSTGGEKLRGTLYNTGRHVSFLPAPRPVVNVSGGPLLYSHRLSEL  
 RLLFGARDGAGSEHQINHQG FSAEVQLIHFNQELYGNFSAASRGPNGLAILSLFVNV  
 ASTSNPFLSRLNDRDTITRISYKNDAYF LQDLSLELLFPESFGFITYQGSLSTPPCSET

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VTWILIDRALNITSLQMHSRLRLLSQNPPSQIFQS LSGNSRPLQPLAHRALRGNRDPR  
HPERRCRGPNYRLHVDGVPHGRVDHHHHHHH

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

**Purity** Greater than 95% as determined by reducing SDS-PAGE.

## GENE INFORMATION

**Gene Name** CA11 carbonic anhydrase XI [ Homo sapiens ]

**Official Symbol** CA11

**Synonyms** CA11; carbonic anhydrase XI; carbonic anhydrase-related protein 11; CA RP XI; carbonic anhydrase related protein 2; carbonic anhydrase related protein XI; CARP2; CARPX1; CA-XI; CARP-2; CARP XI; CA-RP II; carbonic anhydrase-related protein 2; carbonic anhydrase-related protein XI;

**Gene ID** 770

**mRNA Refseq** NM\_001217

**Protein Refseq** NP\_001208

**MIM** 604644

**UniProt ID** O75493

**Chromosome Location** 19q13.3

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**Function**

NOT carbonate dehydratase activity;

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