

## Recombinant Human CA4 Protein, His-tagged

Cat. No. CA4-115H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CA4 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	312
<b>Description</b>	<p>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. They show extensive diversity in tissue distribution and in their subcellular localization. This gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	31 kDa
<b>AA Sequence</b>	<p>MRMLLALLALSAARPSASAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINI            VTTKAKVDKKLGRFFFSGYDKKQTTWTVQNNGHSVMMLLENKASISGGGLPAPYQA            KQLHLHWSLDPYKYGSEHSLDGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDEIAVLA</p>

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FLVEAGTQVNEGFQPLVEALSNIPKPEMSTTMAESSLLDLLPKEEKLRHYFRYLGSLT  
 TPTCDEKVVWTVFREPIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQLGQRTVI  
 KSGAPGRPLPWALPALLGPMLACLLAGFLR

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** CA4 carbonic anhydrase IV [ Homo sapiens (human) ]

**Official Symbol** CA4

**Synonyms** CA4; carbonic anhydrase IV; retinitis pigmentosa 17 (autosomal dominant) , RP17; carbonic anhydrase 4; CAIV; Car4; CA-IV; carbonic dehydratase IV; carbonate

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dehydratase IV; RP17;

**Gene ID**

762

**mRNA Refseq**

NM\_000717

**Protein Refseq**


NP\_000708

**MIM**

114760

**UniProt ID**

P22748

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