

# Recombinant Full Length Human CA4 Protein, GST-tagged

**Cat. No.** CA4-2739HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CA4 full-length ORF (AAH57792, 19 a.a. - 312 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	312 amino acids
<b>Description</b>	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 glycosylphosphatidylinositol-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. [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	58.08 kDa
<b>AA Sequence</b>	AESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRFFFSG YDKKQTTWTVQNNGHSVMMMLLENKASISGGGLPAPYQAKQLHLHWSDLPLYKGSEHS LDGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDEIAVLAFLVEAGTQVNEGFQPLVE ALSNIPKPEMSTTMAESSLLDLLPKKEEKLRYFRYLGSLTTPCDEKVVWTVFREPIQ

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LHREQILAFSQQKLYYDKEQTVSMKDNVRPLQQLGQRTVIKSGAPGRPLPWALPALL  
GPMLACLLAGFLR

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CA4 carbonic anhydrase IV [ Homo sapiens ]
<b>Official Symbol</b>	CA4
<b>Synonyms</b>	CA4; carbonic anhydrase IV; retinitis pigmentosa 17 (autosomal dominant), RP17; carbonic anhydrase 4; CAIV; Car4; CA-IV; carbonic dehydratase IV; carbonate dehydratase IV; RP17;
<b>Gene ID</b>	762
<b>mRNA Refseq</b>	NM_000717
<b>Protein Refseq</b>	NP_000708
<b>MIM</b>	114760



UniProt ID

P22748

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