

Recombinant Full Length Human CA4 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human CA4 full-length ORF (AAH57792, 19 a.a. - 312 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	312 amino acids
Description	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. [provided by RefSeq, Jul 2008]
Molecular Mass	58.08 kDa
AA Sequence	AESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINIVTTKAKVDKKLGRFFFSGYDKKQTTWTQNNGHSMMLLENKASISGGGLPAPYQAKQLHLHWSDLPYKGSEHS LDGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDEIAVLAFLEAGTQVNEGFQPLVE ALSNIPKPEMSTTMAESSLLDLLPKEEKLRYHFRYLGSLTTPTCDEKVWVTVFREPIQ

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	LHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQRTVIKSGAPGRPLPWALPALL GPMLACLLAGFLR
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	CA4 carbonic anhydrase IV [Homo sapiens]
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 dehydratase IV; RP17;
Gene ID	762
mRNA Refseq	NM_000717
Protein Refseq	NP_000708
MIM	114760

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UniProt ID

P22748

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