

Recombinant Human CA4, GST-tagged

Cat. No. CA4-10621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	16-281a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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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
UniProt ID	P22748
Chromosome Location	17q23
Pathway	Proximal tubule bicarbonate reclamation, organism-specific biosystem; Proximal tubule bicarbonate reclamation, conserved biosystem;
Function	carbonate dehydratase activity; lyase activity; metal ion binding; protein binding; zinc ion binding;

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