

Recombinant Human CA4 Protein

Cat. No. CA4-812H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CA4(Ala19-Lys283) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	19-283 a.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.
Form	20mM Tris-HCl, 100mM NaCl, pH 8.5. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	31.4 kDa
Endotoxin	< 0.1 EU per g protein as determined by LAL test

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Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

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

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